Appendix A. **Census of Agriculture Methodology**

The purpose of a census is to enumerate all objects with a defined characteristic. For the census of agriculture, that goal is to account for "any place from which \$1,000 or more of agricultural products were produced and sold, or normally would have been sold, during the census year." To do this, NASS creates a Census Mail List (CML) of agricultural operations that potentially meet the farm definition, agricultural information from collects operations, reviews the data, corrects or completes the requested information, and combines the data to provide information on the characteristics of farm operations and farm operators at the national, State, and county levels. In this appendix, these census processes are described.

THE CENSUS POPULATION

The Census Mail List

The National Agricultural Statistics Service (NASS) maintains a list of farmers and ranchers from which the Census Mail List (CML) is compiled. The goal is to build as complete a list as possible of agricultural places that meet the farm definition. The CML compilation begins with the list used to define sampling populations for NASS surveys conducted for the agricultural estimates program. Each record on the list includes name, address, and telephone number plus additional information that is used to efficiently administer the census of agriculture and agricultural estimates programs.

NASS builds and improves the list on an ongoing basis by obtaining outside source lists. Sources include State and federal government lists, producer association lists, seed grower lists, pesticide veterinarian lists, marketing applicator lists, association lists, and a variety of other agriculturerelated lists. NASS also obtains special commodity lists to address specific list deficiencies. These outside source lists are matched to the NASS list using record linkage programs. Most names on newly acquired lists are already on the NASS list. Records not on the NASS list are treated as potential farms until NASS can confirm their existence as a qualifying farm. Staff in NASS field offices routinely contact these potential farms to determine whether they meet the farm definition. For the 2012 Census of Agriculture, NASS made a concerted effort to work with Community-Based Organizations not only to improve list coverage for minorities but also to increase census awareness and participation.

List building activities for developing the 2012 CML started in 2009 by updating list information from respondents to the 2007 Census of Agriculture. Between 2010 and 2012, NASS conducted a series of National Agricultural Classification Surveys (NACS) on approximately 1.7 million records, which included nonrespondents from the 2007 census and newly added records from outside list sources. The NACS report forms collected information that was used to determine whether an operation met the farm definition. If the definition was met, the operation was added to the NASS list and subsequently to the CML. Addressees that were nonrespondents to a NACS were also added to the CML and identified with a special status code.

Measures were taken to improve name and address quality. Additional record linkage programs were run to detect and remove duplicate records both within each State and across States. List addresses were processed through the United States Postal Service's National Change of Address Registry and the Locatable Address Conversion System to ensure they were correct and complete. Records on the list with missing or invalid phone numbers were matched against a nationally available telephone database to obtain as many phone numbers as possible. To reduce costs, operations with characteristics that indicated they were unlikely to be farms, according to the farm definition, were

removed from the list.

The official CML for the 2012 Census of Agriculture was established on September 1, 2012. The list contained 3,009,641 records. There were 2,387,326 records that were thought to meet the NASS farm definition and 622,315 potential farm records, which included NACS nonrespondents, other records added to the CML by the NASS field offices after the record linkage process, and late adds to the CML that were not included in any previous NACS or State screening survey.

Not on the Mail List (NML)

Extensive efforts are directed toward developing a CML that includes all farms in the U.S. However, some farms are not on the list, and some agricultural operations on the list are not farms. NASS uses its June Agricultural Survey (JAS) to quantify the number and types of farms not on the CML. The tracts in the JAS that are not on the CML are said to be in the Not on the Mail List (NML) domain. If a tract in the NML domain is determined to be a farm during the census, it is an NML farm. The NML farms are used to estimate the undercoverage associated with the census.

The NASS area frame, which is used for the JAS, covers all land in the U.S. and includes all farms. The land in the U.S. is stratified by characteristics of the land. A probability sample of segments is drawn within each stratum for the JAS. Segments of approximately equal size are delineated within each stratum and designated on aerial photographs. The JAS sample of segments is allocated to strata to provide accurate measures of acres planted to widely grown crops, farm numbers, and inventories of cattle. Sampled segments in the JAS are personally enumerated. Each operation identified within a segment boundary is known as a tract.

The 2012 JAS sample was increased to improve the farm counts for operations that produced specialty commodities or had socially disadvantaged or minority operators. The total sample consisted of 14,376 segments of which 3,291 were additional segments added to facilitate the use of the JAS as an Agricultural Coverage Evaluation Survey (ACES). The additional segments were added based upon

multivariate sample allocations to target specific items at the U.S. level. The 2012 JAS consisted of sample segments from all States, with the exception of Alaska where NASS does not maintain an area frame

During the JAS prescreening operation, each tract is identified as either agricultural or non-agricultural. Each JAS agricultural tract is identified as a farm or non-farm in June based on the farm definition. Nonagricultural tracts are further classified into categories; with farm potential, with unknown farm potential, or with no farm potential. The names and addresses collected in the 2012 JAS were matched to the CML. Those from the JAS 2012 survey that did not match were determined to be in the NML domain and sent a yellow census report form so that they could be differentiated from the green report form sent to those addressees on the CML. Instructions on the census report form directed any respondent who received duplicate forms to complete the CML form and to mail all duplicate forms back together. Those who returned a CML and an NML form had been misclassified as NML and were removed from the NML domain.

The initial NML mailout consisted of 36,021 records. An additional 403 June area tracts linked to Census records that were Undeliverable as Addressed (UAA) were later added to the NML domain. A total of 36,424 NML records were summarized of which 5,565 records were truly NML and in-scope.

The farm/nonfarm status of each NML domain operation was determined based on the reported data in the census form. An operation in the NML domain that was determined to be a farm is referred to as an NML farm. Characteristics of NML farms and their operators provided a measure of the undercoverage of farms on the CML. The percentage of farms not represented on the CML varied considerably by State. In general, NML farms tended to be small in acreage, production, and sales of agricultural products. Farm operations were missing from the CML for various reasons, including the possibility that the operation started after development of the CML, the operation was so small that it did not appear in any agriculture-related source list, or the operation was misclassified as a nonfarm prior to census mailout. The CML was used with the NML in

a capture-recapture framework to represent all farming operations across all States in the JAS sample.

DATA COLLECTION OUTREACH AND PROMOTIONAL EFFORTS

NASS planned and executed a multi-phase strategic communications campaign for the 2012 Census of Agriculture, to increase the level of awareness and response among all U.S. agricultural producers.

- Phase 1 ran from October 2011 July 2012. It raised awareness about the census and list building, encouraged producers to sign up in response to NASS mailings and at community, association, and other stakeholder meetings where NASS partners reached out.
- Phase 2 ran from July 2012 December 2012. It notified farm operators and agricultural organizations that the census would be mailed in December, and encouraged communications regarding the census.
- Phase 3 ran from December 2012 July 2013. It focused on census data collection with messaging urging response, reminding operators that it's-not-too-late-to-respond, and thank-you messaging.
- Phase 4 began in February 2014. It communicated information about the data release plan, which has four phases:
 - Phase A (November 2012 December 2013) focused on thanking farmers for their participation in the census and partners for their leadership.
 - Phase B (January 2014 February 2014) drew attention to the preliminary census release.
 - Phase C (February 2014 through May 2014) focused on the final census release.
 - Phase D (ongoing) continues to focus on the census findings as they are released.

As part of the plan, NASS targeted selective communications and outreach efforts on beginning and minority farm operators. All of these efforts were accomplished through an integrated communications program that focused on four primary areas: partnership building, local-level outreach, public relations, and paid media. External support was provided by a private agricultural communications agency.

The unifying force behind the 2012 communications campaign was the theme "There's Strength in Numbers." This was accompanied by supporting messages and artwork that created a consistent look and feel for all census communications. All messages and materials served the purpose of inspiring action: Grow Your Farm Future - Shape Your Farm Programs - Boost Your Rural Services - Fill out your Census of Agriculture - Do your part to be counted - There's strength in numbers.

Partnership and Local-Level Outreach

At the national level, NASS officials met with leaders from dozens of key agricultural organizations, State departments of agriculture, and other USDA agencies, to successfully secure their support in promoting the census among their constituencies. Stakeholders partnered with NASS to promote the 2012 Census of Agriculture through publications, special mailings, speeches, social media, websites, and other communications. addition, through grassroots-level outreach and efforts, NASS partnered with a number of community-based organizations to reach minority and limited-resource farmers and ranchers. national-level outreach was encouraged and mirrored at the regional, State, and local levels. Among the highlights of these partnership efforts was the production of more than 40 television and radio public service announcements (PSAs) featuring the U.S. Secretary of Agriculture, State secretaries, directors, and commissioners of agriculture and leaders from community-based organizations. The PSAs, available in both English and Spanish, encouraged farmers and ranchers to respond to the 2012 Census of Agriculture.

Coverage of American Indian and Alaska Native Farm Operators

To maximize coverage of American Indian and Alaska Native farm operators, special procedures were followed in the census. A concerted effort was made to get individual reports from every American Indian and Alaska Native farm operator in the country. If this was not possible within some reservations, a single reservation-level census report was obtained from knowledgeable reservation officials. These reports covered agricultural activity

on the entire reservation. NASS reviewed these data and removed duplication with any data reported by American Indian or Alaska Native farm operators who responded on an individual census report form. Additionally NASS obtained, from knowledgeable reservation officials, the count of American Indian and Alaska Native farm operators (on reservations) who were not counted through individual census report forms, but whose agricultural activity was included in the reservation-level report form.

This information is summarized in Table D. American Indian and Alaska Native Operators: 2012, providing the number of farm operators (for up to three operators per farm) reported as American Indian or Alaska Native in the race category, either as a single race or in combination with other races, on the individual census report forms, plus the total number of American Indian or Alaska Native operators farming on reservations as reported by reservation officials. The count from the individual report forms is summarized in the "Individually reported" column. It includes operators on or off reservations. The "Other" column provides counts of operators on reservations as reported by a reservation or tribal official. The "Total" column is simply a sum of the "Individually reported" and the Tables in other parts of the "Other" columns. publication count the reservation-level reports as single farms.

Public Relations

In the public relations arena, NASS and the contractor worked with internal and external stakeholders to equip them with communications and resources to deliver tools the census communications message to their audiences. NASS utilized its Intranet to deliver materials to the 12 regional and 46 field offices and created a "Partner to Promote the Census" portal on the census website to deliver public relations materials and tools to external stakeholders. The materials included, but were not limited to: customizable news releases, feature stories, newsletter articles, blogs; drop-in advertisements: website buttons and banners: PowerPoint templates; brochures; and more. In addition, at the national level NASS issued a dozen news releases citing department and agency spokespeople and published timely and relevant pieces to the USDA blog highlighting the census. These public relations efforts at the national, State, and local levels helped ensure that NASS's message about the census was continually in the media, including print and online publications, a variety of social media, radio, and some television programs. Media outlets included both those specializing in agriculture and more general outlets.

Paid Media

For the 2012 Census of Agriculture, NASS placed special emphasis on reaching new and beginning farmers, while continuing efforts to improve its reach within previously under-represented populations. Even with increasingly limited budgets and resources, NASS was able to apply a portion of funds towards paid media. Strategically, NASS purchased limited print and online advertising in areas where there was the potential for high concentrations of under-represented populations and new and beginning farmers and ranchers.

DATA COLLECTION

Method of Enumeration

Data collection was accomplished primarily by mailout/mailback, but supplemented with Electronic Data Reporting (EDR) on the Internet, and personal enumeration for special classes of records in the operations. Personal enumeration census (interviewing) involved the use of both Computer-Assisted Telephone Interviewing (CATI) Computer-Assisted Personal Interviewing (CAPI). Enumerators at the NASS National Operations Center in St. Louis, MO conducted CATI data collection. In addition, enumerators under contract with NASS through the National Association of State Departments of Agriculture (NASDA) conducted phone and personal interviews with respondents. For the 2012 Census of Agriculture, NASS implemented a pre-notification strategy in an effort to increase awareness, improve overall responses, and encourage respondents to report early to avoid continued correspondence. All records in the initial mailout received either a postcard or prerecorded voice message announcing the census mail packets were coming.

Report Forms

There were seven regionalized versions of the report forms used for the 2012 Census of Agriculture. The report form versions were designed to facilitate reporting crops most commonly grown within each report form region. Additionally, an American Indian report form was developed to facilitate reporting for operations on reservations in Arizona, New Mexico, and Utah. The regional report form numbers are: 12-A101, 12-A102, 12-A103, 12-A104, 12-A105, 12-A106 and 12-A107 (HI). The American Indian report form is 12-A200. All of the forms allowed respondents to write in specific commodities that were not listed on their form.

Report Form Mailings

Pre-notification by postcard or pre-recorded message began December 10, 2012. Approximately 3.0 million mail packets were mailed in December 2012. Each packet contained a cover letter, instruction sheet, a labeled report form, and a return envelope. The Census Bureau's National Processing Center (NPC) in Jeffersonville, IN was contracted to perform mail packet preparation, initial mailout, and two follow-up mailings to nonrespondents.

The initial mailout was followed by a thank-you reminder postcard that was delivered in January 2013 to all operations that received mail packets. First follow-up mail packets were mailed in mid-February 2013 to approximately 1.0 million nonrespondents. Second follow-up mail packets were mailed in mid-March 2013 to approximately 750,000 nonrespondents.

Personal Follow-up

Operating concurrently with NPC's mail data collection efforts, NASS telephone call centers targeted selected groups of census nonrespondents for telephone enumeration. NASS field offices targeted selected groups of census records for inperson enumeration. These efforts were referred to as:

- Suspicious Out of Scope Follow-up
- Criteria Record Follow-up
- Must Case Follow-up
- American Indian and Alaska Native Farm

- Operator Follow-up
- Low Response County Follow-up
- Last Call Nonresponse Follow-up
- Not on Mail List (NML) Follow-up

Suspicious Out-of-Scope Follow-up. The Suspicious Out-of-Scope Follow-up was a phone followup that began in February 2013 and was conducted through May 2013. It included records that mailed their form back with a response that they were no longer farming. These operations had reported agricultural information in another survey during 2012. The operations were re-contacted with a CATI instrument to either verify the respondent was not farming or complete a census report form.

Criteria Record Follow-up. Nonrespondents and refusals to the National Agricultural Classification Surveys received unique coding on the CML and are referred to collectively as Criteria Records for follow-up data collection. These Criteria Records typically had a lower probability of meeting the farm definition and were less likely to respond. It was critical to identify those records in this group that represented farms to provide coverage of the small farm population. Small farms make up a significant portion of the overall U.S. farm population.

For the 2012 Census of Agriculture, 276,043 Criteria Records were included in the Census Mail List (CML). A sample of 23,739 Criteria Records was selected for targeted data collection efforts. The sampled records were first contacted by telephone using the census CATI instrument beginning in February 2013 after the initial mail returns were processed. Certified mail to 18,831 respondents was used for those who could not be contacted by telephone. Data collection resulted in 10,887 returns from both telephone and certified mail. The in-scope rate from the returns was applied to the remaining criteria records during replication, which is described in the next sub-section.

Must Case Follow-up. Must cases were known large operations, the absence of which could have significantly affected the accuracy of census results. For the 2012 Census of Agriculture, 118,533 records were categorized as Must cases. Each active Must operation was accounted for by mail receipt, phone interview, or personal enumeration; if an operation was no longer in operation, its nonfarm status was

documented. CATI calling of nonrespondent Must cases was undertaken by call centers from March 2013 through May 2013, after the initial and first follow-up mailing. Following the CATI calling, the remaining nonresponse Must cases were assigned to field offices for personal enumeration. Because of the potential importance of Must cases, they were all accounted for and therefore not eligible for nonresponse weighting adjustment.

American Indian and Alaska Native Farm Operator Follow-up. The American Indian report form (12-A200) was mailed to all operations in Arizona, New Mexico and Utah thought to have an American Indian or Alaska Native operator. It was included in the initial mailout, but due to poor mail response a personal enumeration data collection strategy was utilized with no additional mail followup. A concerted effort was made to get individual reports from every American Indian and Alaska Native farm operator in the country. If this was not possible within a reservation, a single reservationlevel census report obtained was knowledgeable reservation officials. These reports covered agricultural activity on the entire The NASS reviewed these data and reservation. removed any duplicate data reported by American Indian or Alaska Native farm operators from that reservation who responded on an individual census report form. Additionally NASS obtained, from knowledgeable reservation officials, the count of American Indian and Alaska Native farm operators (on the reservations) who were not counted through individual census report forms, but agricultural activity was included in the reservationlevel report form.

Low Response County Follow-up. The Low Response County (LRC) follow-up activity was used to increase the response rate in all counties to at least 75 percent. CATI was used for this follow-up activity. NASS utilized an adaptive design technique to identify particular records for telephone contact, in an effort to increase coverage on minority operations and operations known to produce specialty commodities. In early April 2013, NASS identified nonresponse cases in counties with a response rate of less than 75 percent. Nonresponse records in these counties were then prioritized so that minority operations and specialty commodity producers were the primary records delivered to

phone enumerators. Nonrespondent telephone contact information was transmitted electronically to NASS call centers and incorporated into their CATI instrument. CATI follow-up activities began in mid-April 2013 and continued through mid-June 2012. Automated procedures were employed biweekly to ensure that the record selection procedures were targeting counties that would meet the goals of increasing minority operation coverage and to monitor the number of respondents needed to reach the 75 percent county response rate. When the required number of completions was achieved for a given county, LRC activity was suspended in that county.

Last Call Nonresponse Follow-up. The Last Call Nonresponse Follow-up activity was utilized to increase the national response rate to 80 percent. All remaining nonresponse records with an expected value of sales greater than \$50,000 in counties that had not achieved a 75-percent response rate were eligible for this phone follow-up activity. CATI was used for this activity and began in mid-July 2013 and lasted until August 1, 2013. Automated procedures were employed to monitor the number of respondents needed and completed. When a 75 percent response rate was achieved for a given county, follow-up in that county was suspended. NASS achieved its goal of an 80-percent national response rate utilizing Last Call Nonresponse Follow-up.

Not on the Mail List (NML) Follow-up. account for farming operations not on the CML, NASS used its 2012 JAS supplemented sample from the NASS area frame. The NASS area frame covers all land in the U.S. with the exception of Alaska and includes all farms. As previously described, the NASS conducted a record linkage operation between the CML records and the records from the 2012 JAS. Those 2012 JAS records that did not match records on the CML were designated as "Not on the Mail List (NML)" records. These records were mailed a yellow census form so that it could be differentiated from the green forms mailed to CML records. The NML records were mailed at the same time as the census mailing and received the same follow-up procedures as the census mailing through the first follow-up in mid-February 2013. Beginning in March 2013, CATI was used for nonresponse follow-up for NML nonrespondents.

Replication

Replication is utilized to improve efficiency and reduce respondent burden. To adjust for nonresponse associated with criteria records in the 2007 Census of Agriculture, NASS replicated a set of respondents determined to be in-scope from the last mailing of the Agricultural Identification Survey (AIS), conducted in December 2006. The replicated records represented operations that were relatively small in size and homogeneous in nature. Replicated records were assumed to be in-scope, based on their AIS reported data.

For the 2012 Census of Agriculture, a first mailing was sent to the criteria records, a subpopulation consisting of all of the approximately 74,000 respondents to the 2011 NACS mailing. This included pre-notification using a pre-recorded message, the first mailing, and the thank-you reminder post card. No further follow-up efforts were conducted on this subpopulation. As in 2007, the agricultural operations in this subpopulation were relatively small in size and homogeneous in nature. The responses from the criteria records were used to estimate the in-scope rate for the 20,168 nonrespondents from this subpopulation.

Records were selected randomly for replication or coding as out-of-scope based on the estimated inscope rate. The use of the in-scope rate after one mailing is supported by analysis of 2007 census data, which indicated the early in-scope rate was a reasonable proxy for the in-scope rate for the subpopulation of criteria records that did not respond to the NACS immediately preceding the census mailing. Of the 20,168 NACS records with no response, 16,762 records were selected to be inscope.

Data relationships between the 2012 responses and their respective NACS data were applied to the NACS data for the nonrespondents selected to be inscope to derive values to seed replication. Then replication was conducted through imputation.

Criteria records with no response to the December 2011 NACS were excluded in the capture-recapture adjustments for coverage, response, or correct classification. The in-scope records were each given an initial weight of one. However, for calibration, the

replicated in-scope records were eligible for a coverage adjustment.

REPORT FORM PROCESSING

Data Capture

The Census Bureau's National Processing Center (NPC) in Jeffersonville, IN was contracted to process returned mail packets. NASS staff on site at the NPC provided technical guidance and monitored NPC processing activities. All report forms returned to the NPC were immediately checked in, using bar codes printed on the mailing label, and removed from follow-up report form mailings. All forms with any data were scanned and an image was made of each page of a report form. Optical Mark Recognition (OMR) was used to capture categorical responses and to identify the other answer zones in which some type of mark was present.

Data entry operators keyed data from the scanned images using OMR results that highlighted the areas of the report forms with respondent entries. The keyer evaluated the contents and captured pertinent responses. Ten percent of the captured data were keyed a second time for quality control. If differences existed between the first keyed value and the second, an adjudicator handled resolution. The decision of the adjudicator was used to grade the performance of the keyers, who were required to maintain a certain accuracy level.

The images and the captured data were transferred to NASS's centralized network and became available to field offices and headquarters on a flow basis. The images were available for use in all stages of review. Images were computer generated for reports obtained from the telephone interviews and the Internet.

Editing Data

Captured data were processed through a computer formatting program, which verified that records were valid – that the record identification number was on the list of census records, that the reported counties of operation and production were valid, and other related criteria. Rejected records were referred to

analysts for correction. Accepted records were sent to a complex computer batch edit process. Each execution of the computer edit in batch mode consisted of records from only one State and flowed as the data were received from the NPC, the NASS Electronic Data Reporting (EDR) web utility, or the Computer-Assisted Telephone Interview (CATI) applications.

The computer edit determined whether a reporting operation met the qualifying criteria to be counted as a farm (in-scope). The edit examined each in-scope record for reasonableness and completeness and determined whether to accept the recorded value for each data item or to take corrective action. Such corrective actions included removing erroneously reported values, replacing an unreasonable value with one consistent with other reported data, or providing a value for an overlooked item. To the extent possible, the computer edit determined a replacement value. Strategies for determining replacement values are discussed in the next section. Operations failing to meet the qualifying criteria were categorized as out-of-scope for the census; that is, they were classified as being a nonfarm. Out-ofscope records that NASS had reason to believe might be in-scope (indications of recent and/or significant agricultural activity reported on NASS surveys, for example) were referred to analysts for verification.

The edit systematically checked reported data section-by-section with the overall objective of achieving an internally consistent and complete report. NASS subject-matter experts had previously defined the criteria for acceptable data. Problems that could not be resolved within the edit were referred to an analyst for intervention. Prior to the census mailout, NASS established a group of 90 analysts in a Census Editing Unit in the National Operations Center in St. Louis, MO who examined the scanned images, consulted additional sources of information, and determined an appropriate action. Field office analysts also participated using an interactive version of the edit program to submit corrected data and immediately re-edit the record to ensure a satisfactory solution.

Imputing Data

The edit determined the best value to impute for reported responses that were deemed unreasonable and for required responses that were absent. If an item could not be calculated directly from other current responses, the edit determined whether acreage, production or inventory items had been reported for that farm on a recent NASS crop or livestock survey. For operators who had not changed in five years, demographic variables such as race and sex were taken from the previous census. Administrative data from the Farm Service Agency were used for a few items, such as Conservation Reserve Program acreage. When deterministic edit logic and previously-reported data sources proved inadequate, data from a reporting farm of similar type, size, and location (a donor farm) were considered. In cases where automated imputation was unable to provide a consistent report, the record was referred to an analyst for resolution.

Separate system processes were established to efficiently provide data from a similar farm to the edit when donor imputation was required. The farm characteristics used to define similarity between a recipient record and its donor record were determined dynamically by the edit logic. Euclidean distance was used for similarity computations, with each contributing similarity characteristic scaled appropriately. The most similar farm based on this criterion (the "nearest neighbor") was identified and returned to the edit for use as a The calculated distance between the centroids of the principal counties of production of the donor and recipient was always included as one of the measures of similarity.

To provide donors to the automated edit, a pool of successfully edited records was maintained for each section of the report form. These donor pools began with 2007 census data, reconfigured to emulate 2012 data and then edited using 2012 logic. Data from the 2010 Census Content Test were similarly remapped and edited before being added to the original donor pools. As 2012 records were successfully processed, they were added to the donor pools, which maintained the most recent data for each farm. Donor pools were updated approximately every other week, as determined by edit processing schedules. After several updates, all initial data records were dropped, leaving only 2012 records in the donor pools. After each update, donor pool records were grouped into strata containing farms in the same state of similar type and size, using a datadriven algorithm to define strata. Certain American Indian farms were treated as a separate group, effectively having their own donor pool.

In response to each donor request issued by the edit, a dedicated system process would search the appropriate stratum and respond with the most similar donor, while giving preference to more recent donors. In relatively rare instances where it was unable to provide a donor, the donor selection process issued an appropriate failure message to the Imputation failures occurred for several edit. different reasons. The requirement that an imputed value be positive could have ruled out all available donors, as could have the necessity for the donor record to satisfy a particular constraint – say, that the donor record has cattle, but no milk cows. general, an imputation failure occurred if there was no satisfactory donor in the same profile as the report being edited. Records with imputation failures were either held until more records were available in the donor pool or referred to an analyst. In addition, when such a failure occurred in finding a donor for expenditure data, a program provided values from a table of donor pool averages in lieu of values from an individual donor, wherever possible. 'failover' utility was new for the 2012 census imputation process, and significantly reduced the number of imputation failures among expenditure and labor variables. During the early stages of editing, records requiring imputation for production (and hence yields) of field crops or hay, land values, or certain expenditure variables were set aside or "parked." These records were edited when the donor pools contained only 2012 records, ensuring that 2012 data were used in imputations for these variables.

After receiving a donor's data, the edit substituted the values into the edited record. In many cases, the donor record's data value was scaled using another data field specified in the edit logic. In such cases, the size of the auxiliary field's value in the edited record, relative to its value in the donor record, was used to inflate or reduce the donor record's value for the imputed field. The imputed data were then validated by the same edit logic to which reported data were subject. Since imputation was conducted independently for each occurrence, reports requiring multiple imputations may have drawn from multiple donors.

Data Analysis

The complex edit ensured the full internal consistency of the record. Successfully completing the edit did not provide insight as to whether the report was reasonable compared to other reports in the county. Analysts were provided an additional set of tools, in the form of listings and graphs, to review record-level data across farms. These examinations revealed extreme outliers, large and small, or unique data distribution patterns that were possibly a result of reporting, recording, or handling errors. Potential problems were researched and, when necessary, corrections were made and the record interactively edited again.

When NASS summarizes the census of agriculture, it assigns the data from an individual report to the "principal" county. The principal county is based on the operator's response to a census question and is the one county in which the majority of agricultural products are produced. Because some large operations have significant production in multiple counties, some reports were broken up into multiple source counties, to more accurately allocate the data. Similarly, large farms operating in more than one State were treated as distinct, state-specific operations. A separate report form was completed for each county or State and a separate record was added.

ACCOUNTING FOR UNDERCOVERAGE, NONRESPONSE, AND MISCLASSIFICATION

Although much effort was expended making the CML as complete as possible, the CML did not all U.S. farms, resulting include in list undercoverage. Some farm operators who were on the CML did not respond to the census, despite numerous attempts to contact them. In addition, although each operation was classified as a farm or a nonfarm based on the responses to the census report form, some were misclassified; that is, some nonfarms were classified as farms and some farms were classified as nonfarms. NASS's goal was to produce agricultural census totals for publication that were fully adjusted for list undercoverage, nonresponse and misclassification at the county level.

In the 2007 Census of Agriculture, adjustments for undercoverage and nonresponse were estimated independently. In 2007, as in earlier censuses, the NASS area frame was used to adjust for undercoverage. This process assumed that the area frame provided complete coverage and that all operations were correctly classified as farm/nonfarm. To determine the extent of undercoverage in 2007, the CML records were matched to the area-frame tracts designated as agricultural, non-agricultural with potential, or non-agricultural with potential unknown in June. The area-frame tracts that did not match a CML record were designated as being in the Not on the Mail List (NML) domain. In 2007, tracts that were determined to be non-agricultural without potential during the pre-screening phase of the June Agricultural Survey (JAS) were not considered in the NML domain construction. The NML domain tracts were sent a census form and, if a tract was associated with a farm, then that farm contributed to the correction for undercoverage.

To adjust for nonresponse in 2007, each responding CML record was given a probability of being a farm using a classification tree. The inverse of this probability became the nonresponse weight for that record. For undercoverage, the adjustment provided State-level values. A State-level estimate was based on the weighted sum of the responders with an adjustment for the non-responders within that State plus the State-level undercoverage adjustment. Because State-level farm count estimates based on this two-step process sometimes had high standard errors and apparent biases, the national-level adjusted estimates were smoothed across States, producing initial State-level farm operation coverage targets.

Research following the 2007 Census of Agriculture led to the realization that some area-frame operations were misclassified as farm/nonfarm, which was in conflict with the previous assumption that the JAS farm classification was the accurate classification. Further, because nonresponse could only occur if the operation was on the CML, undercoverage and nonresponse were dependent. Thus in 2012, NASS used capture-recapture methodology to adjust for undercoverage, nonresponse, and misclassification. To implement capture-recapture methods, two independent surveys were required. The 2012 Census of Agriculture (based on the CML) and the

2012 JAS (based on the area frame) were those two surveys. Historically, NASS has been careful to maintain the independence of these two surveys.

A second assumption was that the proportion of JAS farms with a given set of characteristics captured by the census was equal to the proportion of U.S. farms with those same characteristics captured by the census.

For a farm to be identified as a farm, and thus captured by the census, it must be on the CML, respond to the census report form and, based on the census response, be classified as a farm; that is, the capture probability π_C is of interest:

 $\pi_c = \pi(CML, Responded, Farm on Census|Farm)$

Two types of classification error can occur. First, a farm can be misclassified as a nonfarm. This type of misclassification is accounted for in determining the probability of capture π_C . The second type of classification error results when a response to the census is classified as a farm operation when it does not meet the definition of a farm. That is, some farms on the CML may be misclassified from their census report response and may be nonfarms. To account for the misclassification of nonfarms as farms, the probability of a farm on the census being classified correctly must be estimated; that is,

 $\pi_{CCFC} = \pi(Farm \mid Farm \text{ on Census})$

where CCFC represents Correct Census Farm Classification. for undercoverage, To adjust nonresponse, and misclassification, each CML record classified as a farm based on its response to the census report form was given a weight of the ratio of the estimated probability of correct classification of a farm on the census and the estimated probability of capture ($\hat{\pi}_{\textit{\tiny CCFC}}$ / $\hat{\pi}_{\textit{\tiny C}}$ where the hat symbol () denotes an estimate). To estimate the number of farms with a given set of characteristics, the weights of CML records responding as farms on the census and having that set of characteristics were summed. This estimator is

referred to as the capture-recapture estimator (CR):

$$CR = \sum_{i \in F} \frac{\hat{\pi}_{CCFC,i}}{\hat{\pi}_{C,i}}$$

where F is the set of all CML records classified as farms based on their responses to the census questionnaire.

To estimate the capture and correct census farm classification probabilities, a matched dataset consisting of JAS records and census records was created. Records in the 2012 JAS sample were matched to the 2012 census using probabilistic record linkage. The CML records that matched with JAS tracts represent the Census sample. Note: The Census Sample is a subset of the CML records and includes only those records matching a JAS tract. Both agricultural and non-agricultural tracts were included in the matched dataset. (This differs from the 2007 processes, which considered only the agricultural tracts and non-agricultural tracts with potential or with potential unknown. It also included CML records that responded to the census as a farm or nonfarm and CML records that did not respond to the census.)

Resolving Farm Status

The farm status based on census responses to either the CML or NML census data collection and the JAS agreed in most cases; these records are referred to as having resolved farm status. However, in other cases, a record was identified as a farm (nonfarm) on the JAS and as a nonfarm (farm) by the census through either the CML or the NML. Such records are said to have conflicting or unresolved farm status. An operation identified as a farm is referred to as in-scope; one identified as a nonfarm is referred to as out-of-scope. From the set of matched records, three groups with conflicting farm status were identified: 1) in-scope JAS records that were out-ofscope on the census and 2) census in-scope and JAS out-of-scope records, and 3) in-scope JAS records that did not have a census response. The records with conflicting farm status were sent to regional field offices for review. In each case, efforts were made to determine whether (1) the status had changed between June and December when the

census was conducted, (2) the JAS farm status was correct, (3) the census farm status was correct, (4) the records were incorrectly matched, or (5) the farm status could not be resolved. Not all of the records with conflicting farm status could be resolved. In 2012, 11.6 percent of the records in the Census Sample had unresolved farm status. Of these, 18.9 percent were from nonresponse to the census report form.

The probability an operation is a farm was estimated for the records with unresolved farm status. Using the 2012 matched dataset, a logistic model of the probability an operation is a farm based on the records with resolved farm status was developed; that is, the operations where the farm (or nonfarm) status agreed between the JAS and the census were used to develop a missing data model, which was then used to resolve farm status. The final missing data model was used to impute the probability that each of the agricultural operations with unresolved farm status is a farm. For the resolved farms and nonfarms, the probability of the operation being a farm was 1 and 0, respectively. Five-fold crossvalidation was used to develop and to compare competing models. The accuracy of the model was thereby not overstated due to fitting and evaluating the model on the same set of data. To ensure that each of the cross-validation samples covered the U.S., the five cross-validation samples of JAS drawn within State-stratum segments were combinations. Characteristics of the JAS tracts were considered as potential covariates in the model. Because limited information is available for JAS nonfarm tracts, county-level socio-demographic variables from the most recent U.S. population census were also considered. The sample weight associated with each JAS tract was multiplied by the probability of being a farm. This adjusted weight was used in all subsequent modeling.

Capture Probabilities

Recall that, for a farm to be identified as a farm, and thus captured, by the census, it must be on the CML, respond to the census report form and, based on the census response, be classified as a farm. These adjustments are dependent so that the probability of capture π_C may be written as

 $\pi_C = \pi(\text{CML}, \text{Responded}, \text{Farm on Census}|\text{Farm}) = \pi(\text{CML}|\text{Farm})\pi(\text{Responded}|\text{CML}, \text{Farm})\pi(\text{Farm on Census}|\text{CML}, \text{Responded}, \text{Farm})$

The probability of capturing a farm depends on the characteristics of the farm. Using five-fold cross-validation, three logistic models were developed based on the matched dataset. The first model estimated the probability of a farm being on the CML. The second model estimated the probability that a farm on the CML responded to the census report form. The final model estimated the probability that a farm that was on the CML and responded to the census was identified as a farm based on its response. The probability that a farm is captured by the census of agriculture is then the product of the three conditional probabilities that a farm is on the CML, responds, and is identified as a farm.

Note 1: Responses were required for Must cases. These operations were only included in modeling the probability of a farm being on the CML. Consequently, the weight associated with a Must record was the reciprocal of the probability of a farm being on the CML.

Note 2: Two sets of models were created. One set estimated the probability of capture for Texas farms. The other set provided estimated capture probabilities for farms in the remaining States, except for Alaska.

Note 3: Because Alaska is not included in the JAS and thus has no area frame, the Alaskan agricultural operations were not included in the capture-recapture process. adjustments No were made undercoverage or misclassification. To account for nonresponse, the CML records were divided into three groups: (1) the Must records, (2) the Criteria Records, and (3) the remaining CML records. The must records received a weight of one, thereby receiving no adjustment for nonresponse. The probability of response for each of the other two groups was the proportion of responders within the group. Each record within the group was then given a weight equal to the reciprocal of the probability of response.

Misclassification

An operation is misclassified if (1) it meets the definition of a farm, but is classified as a nonfarm on the census or (2) it does not meet the definition of a farm, but is classified as a farm on the census. The first type of misclassification is accounted for when modeling the probability of capture. An adjustment is still needed for the misclassification of nonfarms as farms. As with farm status and capture, the probability of this misclassification depends on an operation's characteristics. Thus, a final logistic model was developed. Given that an operation was classified as a farm on the CML, the probability of its being a farm was modeled based on its characteristics. Five-fold cross-validation was used to ensure that the model was not over-fitted.

CALIBRATION

Each operation identified as being in-scope on the CML was given a weight equal to the probability of misclassification divided by the probability of capture. This weight accounted for undercoverage, nonresponse, and both types of misclassification.

The record weighting processes were initially applied at the State level to produce adjusted estimates of farm numbers and land in farms for 63 different categories of 8 characteristics of the farm operation or the farm operator -- value of agricultural sales (8); age (2); female; race (4); Hispanic origin of principal farm operator; 4 sales categories for each of 10 major commodities (40); and farm type groups (7). The State-level number of farms and land in farms were two additional adjusted estimates, resulting in 65 categories. To reduce the intercensal variation at the State level, the State targets were smoothed by averaging the 2012 estimates from capture-recapture and the published 2007 state estimates with the restrictions that the smoothed targets were within one standard error of the capturerecapture estimates. The smoothed State targets were rescaled so that they summed to the national capturerecapture estimates.

These State estimates were general purpose in that they did not provide any control over expected levels of commodity production of the individual farm operation. As a result of this limitation, the procedures could have over-adjusted or underadjusted for commodity production. To address this, a second set of variables, known as commodity targets, was added to the calibration algorithm. These targets were commodity totals from administrative sources or from NASS surveys of nonfarm populations (e.g. USDA Farm Service Agency program data, Agricultural Marketing Service market orders, livestock slaughter data, cotton ginning data). The introduction of these commodity coverage targets strengthened the overall adjustment procedure by ensuring that major commodity totals remained within reasonable bounds of established benchmarks. Commodity coverage targets with acceptable ranges were established by subject-matter experts for each State, with New England treated as a State.

Each State was calibrated separately. The calibration algorithm addressed commodity coverage. The algorithm was controlled by the 65 State farm operation coverage targets and the State commodity coverage targets. To ensure that the calibration process converged with so many constraints, it was desirable to provide some tolerance ranges for each target. Although full calibration to a single point estimate would assure that the weighted total among census respondents equaled its target for each calibration variable in either set, it was not always possible to calibrate to such a large number of target values while ensuring that farm weights were within a reasonable range and not less than one. Because of this and because calibration targets are estimates themselves subject to uncertainty, NASS allowed some tolerance in the determination of the adjusted weights. Rather than forcing the total for each calibration variable computed using the adjusted weights to equal a specific amount, NASS allowed the estimated total to fall within a tolerance range. This tolerance strategy made it possible for the calibration algorithm to produce a set of satisfactory, adjusted weights.

Ranges for the farm operation coverage targets were determined differently from the commodity targets. The State target for number of farms had no tolerance range. The tolerance range for the 64 other State farm operation coverage targets was the estimated smoothed State total for the variable plus or minus one-half of the standard error of the capture-recapture estimate. This choice limited the

cumulative deviation from the estimated total for a variable when State totals were summed to a U.S. level total. The commodity target tolerance ranges were determined by subject-matter experts, based on the amount of confidence in the source, and usually were less than plus or minus two percent of the target. Ranges were not necessarily symmetric around the target value.

Census data collection was assumed to be complete for very large and unique farms with their weight being controlled to 1 during the calibration adjustment process. For all other farms, adjustment weights were obtained using truncated linear calibration which forced the final census record weights to fall in the interval [1,6]. Adjustments began with the nonresponse and misclassification adjusted weights. Through calibration, a second stage weight that simultaneously satisfied all farm operation coverage and commodity coverage calibration targets was obtained. Calibration was seldom able to adjust weights so that all State targets were met. Within the calibration process, the highest priority for meeting a target was given to the number of farms, total land in farms, and top cash-receipt commodities accounting for 80 percent of the State's production. All remaining targets associated with commodities and characteristics of farms and farm operators had equal priority. If a value within the tolerance range of any variable could not be achieved in a given State, the variable was removed as a target in that State and the calibration algorithm was rerun.

Weight computations in the final algorithms were performed to several decimals. Thus, the fully-adjusted weights were non-integer numbers. To ensure that all subdomains for which NASS publishes summed to their grand total, fully-adjusted weights were integerized. This eliminated the need for rounding individual cell values and ensured that marginal totals always added correctly to the grand total. As an example of how the integerization process worked, assume there were five census records in a county with final noninteger coverage weights of 2.2, for a total of 11. The integerization process randomly selected four of these records and rounded their final weight down to 2.0 and rounded the fifth record up to 3.0, for a total of 11.

The proportions of selected census data items that

are due to coverage, response, and classification adjustments are displayed in Tables A and C.

DISCLOSURE REVIEW

After tabulation and review of the aggregates, a comprehensive disclosure review was conducted. NASS is obligated to withhold, under Title 7, U.S. Code, any total that would reveal an individual's information or allow it to be closely estimated by the public. Cell suppression was used to protect the cells that were determined to be sensitive to a disclosure of information. Farm counts are not considered sensitive and are not subject to disclosure controls.

Based on agency standards, data cells were determined to be sensitive to a disclosure of information if they violated either of two criteria rules. The threshold rule was violated if the data cell contained less than three operations. For example, if only one farmer produced turkeys in a county, NASS could not publish the county total for turkey inventory without disclosing that individual's information. The dominance rule was violated if the distribution of the data within the cell allowed a data user to estimate any respondent's data too closely. For example, if there are many farmers producing turkeys in a county and some of them were large enough to dominate the cell total, NASS could not publish the county total for turkey inventory without risking disclosing an individual respondent's data. In both of these situations, the data were suppressed and a "(D)" was placed in the cell in the census publication table. These data cells were referred to as primary suppressions.

Since most items were summed to marginal totals, primary suppressions within these summation relationships were protected by ensuring that there were additional suppressions within the linear relationship that provided adequate protection for the primary. A detailed computer routine selected additional data cells for suppression to ensure all primary suppressions were properly protected in all linear relationships in all tables. These data cells were referred to as complementary suppressions. These cells were not themselves sensitive to a disclosure of information but were suppressed to protect other primary suppressions. A "(D)" was also placed in the cell of the census publication table to

indicate a complementary suppression. A data user could not determine whether a cell with a (D) represented a primary or a complementary suppression.

Field office analysts reviewed all complementary suppressions to ensure no cells had been withheld that were vital to the data users. In instances where complimentary suppressions were deemed critically important to a State or county, analysts requested an override and a different complementary cell was chosen.

CENSUS QUALITY

The purpose of the census of agriculture is to account for "any place from which \$1,000 or more of agricultural products were produced and sold, or normally would have been sold, during the census year." To accomplish this, NASS develops a CML that contains identifying information for operations that have an indication of meeting the census procedures definition, develops to collect agricultural information from those records, establishes criteria for analyst review of the data, creates computer routines to correct or complete the requested information, and provides census estimates of the characteristics of farms and farm operators with associated measures of uncertainty.

It is not likely that either the CML includes all operations that meet the definition of a farm or that all those that do meet the definition of a farm respond to the census inquiry. The goal is to publish data with a high level of quality. There are many ways to measure the quality of a census.

One of the first indicators used is a measure of the response to the census data collection as it has generally been thought that a high response rate indicates more complete coverage of the population of interest. This is a valid assumption if the enumeration list, the CML here, has complete coverage of the population of interest. In the case of the census of agriculture, the definition requiring advance knowledge of sales makes achieving a high level of coverage difficult. To ensure that the census of agriculture is as complete as possible, records are included that might not meet the census definition of a farm – in fact, almost 50 percent more records than the anticipated number of qualifying farm operations

were included in the 2012 CML. A second indicator of quality then is the coverage of the farm population by the CML. Other indicators of quality relate to the accuracy and completeness of the data, and the validity of the procedures used in processing the data.

In some cases, NASS was able to produce measures of quality - such as the response rate to the data collection, the coverage of the census mail list, and the variability of the final adjusted estimates. other cases, measures were not produced but descriptions of procedures that NASS used to reduce errors from the procedures were subsequently provided.

Census Response Rate

The response rate is one indicator of the quality of a data collection. It is generally assumed that if a response rate is close to a full participation level of 100 percent, the potential for nonresponse bias is small, although this has been questioned recently in the literature. Because the CML contains both farm and nonfarm records, the response rate is an indicator of replying to the census data collection effort, but does not reflect whether those responding met the farm definition. The response rate for the 2012 Census of Agriculture CML is 80.1 percent as compared with a response rate of 85.2 percent for the 2007 Census of Agriculture and 88.0 for the 2002 Census of Agriculture.

The 2012 Census of Agriculture response rate used the fourth response rate formula from the American Association of Public Opinion Research Response Rate Standard Definitions manual:

$$RR\ 4 = \frac{C_{adj}}{C_{adj} + R + NC + O + Replicated + e(U)} (100)$$

where

 C_{adj} = number of fully and partially completed records, excluding replicated records R = number of explicit refusals NC = number of non-contacted operations O = number of other types of nonrespondents Replicated = number of replicated records U = number of operations of unknown eligibility

e(U) = estimated number of operations of unknown eligibility assumed to be eligible

Records were classified into the above variables based on the combination of their active status (AS) codes, in-scope status, and replication status. Active status refers to the eligibility status of records for selection on the CML. All replicated records were considered to be a form of nonresponse and were classified into other nonrespondents; in-scope status was considered immaterial.

Certain active status classifications indicated records of unknown agricultural status. These classifications included records to be removed from the CML but had data from outside sources indicating agricultural activity, new records from outside data sources, nonrespondents and refusals to the NACS, records for regional office handling only, and records with Farm Service Agency or Conservation Reserve Program data on operations that are not owned by the principal operator. These records were stratified (grouped) based on their probabilities of being inscope had they responded. The estimated number of in-scope nonrespondents was calculated for the hth stratum (group) by the following formula:

$$e(U_h) = \left(\frac{C_{in-scope,h}}{C_h}\right)U_h$$

where

 $e(U_h)$ = estimated number of operations of unknown eligibility assumed to be eligible in the hth group $C_{in\text{-}scope,h}$ = the number of completed and in-scope census records in the hth group

 C_h = the number of completed census records in the hth group

 U_h = number of operations of unknown eligibility in the *h*th group

Census Coverage

As a side-product of the statistical adjustment used to account for undercoverage, nonresponse of farms on the CML, and misclassification of responses to the census, the proportion of the adjustments due to each of those factors can be derived. The percentages of final census estimates due to adjustments for

undercoverage, nonresponse, and misclassification as well as the total percent adjustment for selected items are displayed in Tables A and C.

MEASURED ERRORS IN THE CENSUS PROCESS

Although the census of agriculture does not inherently rely on a sample, it uses statistical procedures in compiling the CML, in its data collection procedures, in data editing and processing, and in compiling the final data. Additionally, it uses statistical procedures to both measure errors in the various processes and in making adjustments for those errors in the final data. One example is the statistical process used to account for undercoverage, nonresponse of farms on the CML, misclassification of responses to the census. The basis of the undercoverage adjustment is the capturerecapture procedure that uses the area sample enumeration from the June Agricultural Survey. The largest contribution to error in the census estimates is due to the adjustments for nonresponse, undercoverage, misclassification, calibration and integerization.

Variability in Census Estimates due to Statistical Adjustment

In conducting the 2012 Census of Agriculture, efforts were initiated to measure error associated with the adjustments for farm operations that were not on the CML, for farm operations that were on the CML but did not respond to the census report form, for farms and nonfarms that were misclassified as nonfarms and farms, respectively, for calibration, and for integerization. These error measurements were developed from the standard error of the estimates at the national, State, and county levels and were expressed as coefficients of variation (CVs) at the national and State levels and as generalized coefficients of variation (GCVs) at the county levels.

The standard error of an estimate is an estimate of the standard deviation of the sampling distribution of the estimator. Because Texas and Alaska were modeled separately from the other States, the variances of a national-level data item for these two States were computed separately and added to the

variance of that data item for the rest of the U.S. The standard error was then the square root of the total variance. In each case, standard errors were computed using the group jackknife approach. To conduct the jackknifing, k mutually exclusive and exhaustive groups of JAS segments were formed. The groups were selected using a stratified random design so that each group reflected the survey design, including State and agricultural strata within a State. In turn, each group, j = 1, 2, ..., k, was deleted and the capture-recapture estimate $CR_i^{(j)}$ was computed for each data item i at the specified geographical level, such as nation, State, or county, using the remaining (k-1) groups. Estimates of the variance and standard error associated with the capture-recapture estimate CR_i are then, respectively,

$$\sigma_{i}^{2} = \frac{k-1}{k} \sum_{j=1}^{k} (CR_{i}^{(j)} - CR_{i})^{2}; \quad SE(CR_{i}) = \sqrt{\sigma_{i}^{2}}$$

Increasing k improves the estimate of the variance but, as k increases, the observations become too sparse to reflect the survey design and to provide country-wide coverage. Based on 2007 data, k = 10was determined to be the largest number of groups that could be formed and still have each group provide adequate coverage within all States and agricultural strata. Thus, 10 jackknife groups were used to provide standard errors for 2012 State and national estimates. To capture the additional variability from calibration and integerization, the standard errors were computed using the calibrated, integerized capture-recapture estimates from the jackknife groups. For the estimate of the number of farms with a given set of characteristics, only the CML records with those characteristics were used to obtain the overall estimate as well as the estimates from each jackknife group.

When the constraints of the calibration process produced an artificially small standard error, the more conservative capture-recapture standard error was used. Note that the jackknife groups must only be constructed once, and different subsets of the records were used to compute estimates and standard errors for the data items.

The CV is a measure of the relative amount of error

associated with the sample estimate:

$$CV = \frac{SE(CR_i)}{CR_i} 100 \%$$

where SE(CRi) is the standard error of the capturerecapture estimate for data item i. This relative measure allows the reliability of a range of estimates to be compared. For example, the standard error is often larger for large population estimates than for small population estimates, but the large population estimates may have a smaller CV, indicating a more reliable estimate. For county-level estimates, a generalized coefficient of variation (GCVs) was determined for each estimate within a State. A generalized variance function relates a function of the variance of an estimator to a function of the estimator. Within a State, the standard error of an estimate for a data item was often found to be linearly related to the estimate of that item with an intercept of zero. Based on this modeled relationship, the GCV is the slope of the line relating the standard error to the estimate, multiplied times 100 to represent the GCV as a percentage.

The standard error is the product of the CV (or GCV for county estimates) and the estimate divided by 100. As an example, if the GCV for a State is 25 percent and a county's estimate is 4, then the standard error is 25(4)/100 = 1. The standard error of an estimated data item from the census provides a measure of the error variation in the value of that estimated data item based on the possible outcomes of the census collection, including variants as to who was on the CML, who returned a census form, who was misclassified either as a farm or as a nonfarm, and the uncertainty associated with calibration and integerization. With 95 percent confidence, an estimate is within two standard errors of the true value being estimated. For this example, with 95 percent confidence, the estimate of 4 is within 2(1) =2 of the true county value.

Table B presents the fully adjusted estimates with the coefficient of variation for selected items.

NONMEASURED ERRORS IN THE CENSUS PROCESS

As noted in the previous section, sampling errors can

be introduced from the coverage, nonresponse and misclassification adjustment procedures. This error is measureable. However, nonsampling errors are imbedded in the census process that cannot be directly measured as part of the design of the census but must be contained to ensure an accurate count. Extensive efforts were made to compile a complete and accurate mail list for the census, to elicit response to the census, to design an understandable report form with clear instructions, to minimize processing errors through the use of quality control measures, to reduce matching error associated with the capture-recapture estimation process, and to minimize error associated with identification of a respondent as a farm operation (referred to as classification error). The weight adjustment and tabulation processes recognize the presence of nonsampling errors; however, it is assumed that these errors are small and that, in total, the net effect is zero. In other words, the positive errors cancel the negative errors.

Respondent and Enumerator Error

Incorrect or incomplete responses to the census report form or to the questions posed by an enumerator can introduce error into the census data. Steps were taken in the design and execution of the census of agriculture to reduce errors from respondent reporting. Poor instructions ambiguous definitions lead to misreporting. Respondents may not remember accurately, may give rounded numbers, or may record an item in the wrong cell. To reduce reporting and recording errors, the report form was tested prior to the census using industry accepted cognitive testing procedures. Detailed instructions for completing the report form were provided to each respondent. Questions were phrased as clearly as possible based on previous tests of the report form. Computer-assisted telephone interviewing software included immediate integrity checks of recorded responses so suspect data could be verified or corrected. In addition, each respondent's answers were checked for completeness and consistency by the complex edit and imputation system.

Processing Error

Processing of each census report form was another potential source of nonsampling error. All mail

returns that included multiple reports, respondent remarks, or that were marked out of business and report forms with no reported data were sent to an analyst for verification and appropriate action. Integrity checks were performed by the imaging system and data transfer functions. Standard quality control procedures were in place that required that randomly selected batches of data keyed from image be re-entered by a different operator to verify the work and evaluate key entry operators. All systems and programs were thoroughly tested before going on-line and were monitored throughout the processing period.

Developing accurate processing methods is complicated by the complex structure of agriculture. Among the complexities are the many places to be included, the variety of arrangements under which farms are operated, the continuing changes in the relationship of operators to the farm operated, the expiration of leases and the initiation or renewal of leases, the problem of obtaining a complete list of agriculture operations, the difficulty of contacting and identifying some types of contractor/contractee relationships, the operator's absence from the farm during the data collection period, and the operator's opinion that part or all of the operation does not qualify and should not be included in the census. During data collection and processing of the census, all operations underwent a number of quality control checks to ensure results were as accurate as possible.

Item Nonresponse

All item nonresponse actions provide another opportunity to introduce measurement errors. Regardless of whether it was previously reported data, administrative data, the nearest neighbor algorithm, or manually imputed by an analyst, some risk exists that the imputed value does not equal the actual value. Previously reported and administrative data were used only when they related to the census reference period. A new nearest neighbor was randomly selected for each incident to eliminate the chance of a consistent bias.

Record Matching Error

The process of building and expanding the CML involves finding new list sources and checking for

names not on the list. An automated processing system compared each new name to the existing CML names and "linked" like records for the purpose of preventing duplication. New names with strong links to a CML name were discarded and those with no links were added as potential farms. Names with weak links, possible matches, were reviewed by staff to determine whether the new name should be added. Despite this thorough review, some new names may have been erroneously added or deleted. Additions could contribute to duplication (overcoverage) whereas deletions could contribute to undercoverage. As a result, some names received more than one report form, and some farm operators did not receive a report form. Respondents were instructed to complete one form and return all forms so the duplication could be removed.

Another chance for error came when comparing June Agricultural Survey tract operator names to the CML. Area operators whose names were not found on the CML were part of the measure of list incompleteness, or NML. Mistakes in determining overlap status resulted in overcounts (including a tract whose operator was on the CML) or undercounts (excluding a tract whose operator was not on the CML). All tracts determined to not be on the list were triple checked to eliminate, or at least minimize, any error. NML tract operators were mailed a report form printed in a different color. In order to attempt to identify duplication, all respondents who received multiple report forms were instructed to complete the CML version and return all forms so duplication could be removed.

Records in the 2012 JAS were matched to the 2012 census using probabilistic record linkage. The records of operations with unresolved farm status were reviewed by the field offices. If farm status could not be resolved, the probability of an operation being a farm was imputed using a missing data model. The uncertainty associated with this estimate, with the exception of model uncertainty, was accounted for, but errors not found through this process were not.

Model Uncertainty Error

Five logistic models were developed in the process of adjusting the farm numbers for undercoverage, nonresponse, and misclassification. One model estimated the probability of an agricultural operation with unresolved farm status being a farm. The remaining four models estimated the probability of coverage, response, and correct classification of farms and of nonfarms. Each model was fit independently by two people. For some models, both statisticians obtained the same model. Although the

covariates in the two selected models differed some for the other logistic models, the estimated probabilities were similar, but not identical. The reported standard errors account for the variability in the parameter estimates of the selected models, but not for the additional variation due to model uncertainty. They also do not account for any bias associated with a model.

Table A. Summary of State Coverage, Nonresponse, and Misclassification Adjustments: 2012 [For meaning of abbreviations and symbols, see introductory text.]

[For meaning of abbreviations and symbols, see introductory text.]	-	Standard	Adjustment	Percent of total	Percent of total	Percent of total
Item	Total	error	as percent of total	adjustment from coverage	adjustment from nonresponse	adjustment from misclassification
Farmsnumber Land in farmsacres	248,809	7,373	36.7	12.5	16.8	7.4
	130,153,438	3,008,411	19.8	4.9	11.2	3.7
Farms by size: 1 to 9 acres farms	20,825	4,361	40.7	21.8	15.4	3.5
acres 10 to 49 acres farms	101,929 72,856	21,281 5,958	41.1 37.8	21.5 21.5 17.3	15.6 12.3	4.1 8.2
acres	1,786,005	134,585	37.3	16.7	12.0	8.6
50 to 69 acres farms	19,018	643	40.5	9.9	20.7	9.8
acres 70 to 99 acres farms	1,099,790 19,480	37,297 677	40.4 40.4 39.6	9.9 9.3	20.7 20.7 20.5	9.9 9.8
acres	1,613,249	55,955	39.5	9.3	20.4	9.7
100 to 139 acres farms	20,550	705	39.3	9.2	21.2	8.9
acres	2,369,174	81,277	39.2	9.2	21.1	8.9
140 to 179 acres	14,820	479	37.5	8.9	19.7	8.9
acres	2,340,631	75,545	37.5	8.9	19.6	8.9
180 to 219 acres farms	10,449	355	36.7	8.3	19.9	
220 to 259 acres	2,069,377 7,287	70,509 232	36.7 36.4	8.3 8.0	19.9 20.2	8.5 8.5 8.2
acres 260 to 499 acres	1,733,051	55,057	36.3	8.0	20.1	8.2
	24,266	992	35.8	6.8	21.6	7.4
acres	8,636,826	360,041	35.7	6.7	21.7	7.3
500 to 999 acres	17,309	876	33.6	8.7	19.2	5.6
acres	11,970,791	606,903	33.3	8.7	19.1	5.6
1,000 to 1,999 acresfarms	11,139	442	30.4	5.4	19.0	6.1
acres 2,000 acres or more	15,325,128	614,589	30.0	5.3	18.7	6.1
	10,810	546	18.8	4.4	10.8	3.6
acres	81,107,487	2,569,139	11.2	3.3	6.2	1.7
Irrigated land use: Harvested croplandfarms	15,184	795	32.1	8.2	18.5	5.4
Pastureland and other landfarms	4,174,843	214,881	20.6	1.8	15.3	3.5
	4,142	193	39.6	13.1	20.3	6.3
acres	314,320	36,000	26.5	4.2	18.0	4.4
Market value of agricultural products sold\$1,000	25,375,581	2,666,227	14.2	1.9	10.7	1.6
Farms by value of sales: Less than \$1,000 farms	00.400	5 700	20.5	47.4	44.0	0.4
\$1,000	80,196	5,706	39.5	17.4	14.0	8.1
	9,827	1,014	39.5	21.3	12.1	6.0
\$1,000 to \$2,499	32,579	1,989	40.4	15.1	16.0	9.3
	54,202	3,366	40.3	14.9	15.9	9.4
\$2,500 to \$4,999	29,961	1,260	36.9	11.9	15.3	9.7
	107,126	4,425	36.8	11.8	15.2	9.8
\$5,000 to \$9,999	32,144	1,518	37.0	9.9	17.0	10.1
	227,341	10,633	36.8	9.8	17.0	10.1
\$10,000 to \$19,999	25,156 352,121	932 12,976	34.2 34.1 32.9	9.4 9.3	21.6 21.6	3.2 3.2 3.5
\$20,000 to \$24,999	6,625 146,500 11,250	256 5,645	32.8 32.8 34.0	8.4 8.4	21.1 21.0 21.4	3.5 3.5 5.2
\$1,000 \$40,000 to \$49,999	351,993 4,255	663 20,567 243	34.0 32.6	7.4 7.4 6.2	21.4 21.4 21.4	5.2 5.2 5.0
\$1,000 \$50,000 to \$99,999	188,725 9,154	10,773 449	32.5 31.2	6.2 6.0	21.3 20.6	5.0 5.0 4.6
\$1,000	634,276	30,990	31.1	5.9	20.6	4.6
\$100,000 to \$249,999	7,631	667	31.5	3.0	23.0	5.6
\$1,000	1,189,664	102,713	31.1	2.9	22.7	5.5
\$250,000 to \$499,999	3,846	277	27.7	2.6	19.9	
\$1,000 \$500,000 to \$999,999	1,368,530 2,788	94,885 330	27.7 27.7 24.1	2.6 0.6	19.9 19.9 21.6	5.3 5.2 2.0
\$1,000,000 or more farms	1,953,417 3,224	213,166 207	23.6 19.1	0.6 0.6 1.2	21.1 16.3	2.0 2.0 1.6
\$1,000	18,791,859	2,626,340	9.0	1.3	7.1	0.6
Net cash farm income of operations (see text): Farms with gains of ¹ -						
Less than \$1,000	10,647	396	36.6	13.1	15.0	8.6
	4,989	182	36.6	12.8	15.0	8.8
\$1,000 to \$4,999	21,640	599	35.4	10.3	16.6	8.5
	58,062	1,496	35.3	10.1	16.8	8.4
\$5,000 to \$9,999	11,976	301	34.7	8.9	19.0	6.7
	85,736	2,171	34.5	8.9	18.9	6.7
\$10,000 to \$24,999	13,212 212,215	, 427 7,117	33.5 33.5	8.2 8.1	19.5 19.6	5.8 5.8
\$25,000 to \$49,999farms	7,467	291	33.3	6.5	20.2	6.6
\$1,000	262,795	10,136	33.3	6.5	20.2	6.6
\$50,000 or more	13,771	1,009	29.6	2.8	22.3	4.5
	4,620,778	260,723	20.5	1.7	16.2	2.5
Farms with losses of -						
Less than \$1,000	14,895	568	37.6	15.3	14.1	8.3
	7,591	287	37.7	15.3	14.0	8.4
\$1,000 to \$4,999	53,748	2,232	38.4	15.7	14.6	8.1
	154,719	6,382	38.6	15.6	14.8	8.2
\$5,000 to \$9,999	39,020	1,566	39.1	15.3	16.0	7.8
	281,218	11,178	39.1	15.3	16.1	7.8
\$10,000 to \$24,999	38,534	1,304	38.6	13.8	17.2	7.6
	600,350	19,297	38.5	13.5	17.4	7.5
\$25,000 to \$49,999	13,735	392	37.5	11.3	19.2	7.1
	471,933	13,215	37.4	11.1	19.3	7.0
\$50,000 or more	10,164	297	31.6	7.7	18.5	5.4
	1,763,026	67,044	25.2	5.0	16.2	4.0
Farms by legal status for tax purposes:	222 502	6.700	27.0	40.0	46.0	7.5
Family or individual	222,580	6,793	37.2	12.8	16.9	7.5
	82,792,493	2,117,710	23.2	5.4	13.4	4.4
	16,660	415	33.5	9.6	17.2	6.7
Partnership larms acres	31,724,136	654,371	33.5 14.1	9.6 4.2	7.3	2.5

See footnote(s) at end of table. --continued

Table A. Summary of State Coverage, Nonresponse, and Misclassification Adjustments: 2012 (continued)

[For meaning of abbreviations and symbols, see introductory text.]			- -			,
Item	Total	Standard error	Adjustment as percent of total	Percent of total adjustment from coverage	Percent of total adjustment from nonresponse	Percent of total adjustment from misclassification
Farms by legal status for tax purposes: - Con.						
Corporation: Family heldfarms	5,997	145	31.4	10.6	14.2	6.7
Other than family heldfarms	11,017,774 862	233,355 37	12.3 35.7	3.7 10.6	6.7 19.2	1.9 5.9
Other - cooperative, estate or trust, institutional, etc. farms	1,891,991 2,710	88,280 81	9.2	3.0 12.7	5.2	1.0 8.3
acres	2,727,044	152,845	19.7	7.3	8.5	3.8
Tenure: Full ownersfarms	179,783	5,865	37.2	14.3	15.2	7.7
Part owners	54,686,331 54,297 58,764,138	1,446,567 2,007 1,743,525	22.7 34.4 17.5	7.9 6.6 2.6	10.1 21.1 12.0	4.7 6.6 3.0
Tenants farms acres	14,729 16,702,969	964 675,717	40.0 17.9	8.7 2.6	24.9 13.0	6.4 2.3
Principal operator characteristics by- Sex of operator:						
Male farms	210,357	6,049	35.5	11.6 4.4	17.3 11.3	6.6
acres Female	117,984,460 38,452 12,168,978	2,867,491 4,746 1,019,600	18.9 43.6 28.0	16.7 9.8	15.3 15.3 10.6	3.2 11.6 7.6
Primary occupation:	12,100,010	1,212,222				
Farming farms Other farms	104,769 144,040	2,713 5,028	34.5 38.4	11.3 13.3	15.9 17.5	7.3 7.6
Spanish, Hispanic, or Latino origin (see text)farms	23,689	1,919	53.9	24.0	25.0	4.9
acres	6,726,294	555,122	42.0	15.5	21.7	4.7
Race: American Indian or Alaska Nativefarms	2,693	900	68.7	36.9	14.5	17.2
Alaska Native lams acres Asian farms	711,127 718	125,991 81	58.1 51.3	31.8 23.5	13.3 22.0	17.3 13.0 5.8
acres Black or African Americanfarms	120,405 8,551	11,851 3,150	45.2 64.9	20.5 34.3	18.2 13.0	6.5 17.6
Native Hawaiian or	929,003	214,049	61.2	31.9	14.5	14.7
Other Pacific Islander farms acres White farms	27 38,660 235,449	6 8,438 6,692	48.1 17.4 35.3	18.8 13.6 11.2	25.9 3.1 17.2	3.4 0.7 6.9
More than one race reported	127,955,718 1,371	2,865,376 59	19.2 36.0	4.6 11.9	11.1 15.0	3.5 9.1
acres	398,525	25,131	24.7	6.1	12.4	6.2
Reporting primary occupation as farming by age group:						
Under 25 years	413 3,484	91 798	63.4 54.6	21.8 18.6	39.1 33.5	2.5 2.5
35 to 44 years	5,931 14,691	943 831	38.2 39.1	9.1 11.2	23.8 19.7	5.3 8.2
55 to 64 years farms 65 years and over farms	25,774 54,476	1,108 1,232	32.6 32.1	13.3 10.1	14.8 12.6	4.5 9.5
Reporting primary occupation as	- 1,	-,				
other than farming by age group: Under 25 yearsfarms	380	99	64.7	26.4	34.1	4.3
25 to 34 years farms 35 to 44 years farms	5,814 15,172	1,752 2,322	57.8 44.3	23.1 11.7	31.7 26.1	3.0 6.4
45 to 54 years	37,997 43,310	2,311 1,913	43.4 34.8	12.8 15.0	21.4 14.8	9.3 4.9
65 years and over farms	41,367	817	32.5	11.6	10.3	10.6
All operators by age group ² : Under 25 years farms	4,158	245	45.8	18.5	19.7	7.7
25 to 34 years	18,174 37.447	3,137 4,231	49.6 40.8	19.3 11.8	25.9 22.6	4.4 6.5
45 to 54 years farms 55 to 64 years farms	83,595 103,698	4,094	40.4	12.7	19.1	8.6
55 to 64 years	79,154 44,838	3,795 1,572 810	33.6 32.2 31.9	14.1 11.5 9.9	14.2 11.5 11.4	5.3 9.2 10.6
Livestock and poultry:						
Cattle and calves inventory farms number Beef cows inventory farms	151,362 11,159,747 133,924	4,197 772,863 3,469	36.0 18.2 35.7	10.8 3.5 10.3	18.5 12.8 18.7	6.7 2.0 6.6
Milk cows inventory	4,329,341 985	146,490 111	26.6 37.3	5.3 5.4	18.0 28.5	3.3 3.4
number Hog and pigs inventoryfarms	434,928 4,905	26,315 456	4.0 49.6	0.2 21.1	3.7 22.7	0.1 5.8
number Layers inventory farms	800,893 19,748	28,269 1,556	3.7 41.7	3.0 17.8	0.6 17.5	0.1 6.5
number Broilers sold	20,902,244 1,566 600,353,797	7,461,055 193 88,822,530	9.5 36.0 30.3	1.7 12.1 2.0	6.7 20.9 27.3	1.0 2.9 1.1
Aquaculture sold	257 82,033	20 25,565	27.6 29.3	15.5 3.0	9.3 25.8	2.8 0.5
Selected crops harvested:						
Corn for grain farms acres Wheat, winter farms	4,045 1,620,460 7,366	389 122,468 411	29.7 19.4 28.4	2.5 1.2 3.1	24.9 16.5 22.1	2.3 1.7 3.2
Wheat, writer acres Wheat, durum farms	2,989,113 -	86,934 -	19.4	2.1	14.3	3.0
acres	-	-	-	-	-	continued

See footnote(s) at end of table. --continued

Table A. Summary of State Coverage, Nonresponse, and Misclassification Adjustments: 2012 (continued)

Item	Total	Standard error	Adjustment as percent of total	Percent of total adjustment from coverage	Percent of total adjustment from nonresponse	Percent of total adjustment from misclassification
Selected crops harvested: - Con.						
Wheat, springfarms	49	8	32.7	4.9	24.2	3.6
Soybeans for beans acres farms	4,856	1,087	23.9	3.7	16.1	4.2
	451	59	29.9	1.9	26.1	2.0
	107,909	8,532	21.1	1.2	18.0	1.9
Sorghum for grain	4,521	324	30.1	2.8	24.2	3.1
	1,898,726	64,333	25.4	2.6	18.9	3.9
Ricefarms	364	74	30.2	1.4	27.5	1.3
	134,189	28,505	28.7	0.9	26.7	1.1
Cotton	7,029	616	31.3	2.3	24.8	4.2
	3,844,464	211.999	16.4	1.1	11.7	3.6
Peanuts farms	552	35	28.4	4.7	17.1	6.6
	148.795	15.006	27.4	2.3	17.2	7.8
Barley	58 6.952	1,812	27.6 22.1	6.2 1.8	17.9 19.0	3.5 1.3
Oats farms acres	809	40	33.6	5.9	23.0	4.7
	74,446	3,971	39.1	4.7	27.8	6.5
Forage - land used for all hay and all haylage, grass silage, and						
greenchop (see text)	86,456	2,261	34.1	10.4	16.7	7.0
	5,069,579	202.117	29.3	6.4	17.3	5.5
Land in vegetables (see text)	2,296	307	35.1	13.5	13.1	8.5
	124,133	18,938	30.3	10.9	13.9	5.5
Potatoes	577	71	32.9	16.1	8.2	8.7
	22,535	6,327	29.7	25.7	1.9	2.1
Tomatoes in the open	1,087	147	32.8	13.9	10.8	8.1
	2.096	1,247	40.9	14.9	16.4	9.5
Sweet corn farms	532	52	33.1	15.3	8.9	8.9
	4.726	1,721	33.8	15.1	11.0	7.8
Lettucefarms acres	102 340	²¹ 258	33.3 28.4	12.9 2.0	14.9 21.5	5.6 4.9
Land in orchards	6,966	238	28.2	11.8	7.9	8.5
	204,305	15,008	23.7	5.5	8.7	9.5
Applesfarms acres	390	27	28.7	13.4	8.6	6.7
	476	109	29.4	14.2	5.4	9.7
Grapesfarms acres	678	57	29.1	12.3	8.3	8.4
	7,092	3,422	37.4	10.7	9.0	17.7
Oranges farms	371	47	33.2	16.9	6.2	10.1
	7,831	1,743	23.3	7.8	4.4	11.1
Almonds	13	3	23.1	11.9	5.6	5.6
	24	20	44.4	16.4	11.5	16.5
Land in berries farms acres	595	43	30.9	12.0	10.4	8.4
	2,048	409	30.9	7.0	11.9	12.1

¹ Farms with total production expenses equal to market value of agricultural products sold, government payments, and farm-related income are included as farms with gains of less than \$1,000.
² Data were collected for a maximum of three operators per farm.

Table B. Reliability Estimates of State Totals: 2012 [For meaning of abbreviations and symbols, see introductory text.]

[For meaning of abbreviations and symbols, see intr	,	Total	Coefficient of variation	ltem	Total	Coefficient of variation
			(percent)		Total	(percent)
Farms Land in farms		248,809 130,153,438	3.0 2.3	Farms by legal status for tax purposes: - Con.		
Farms by size:				Partnershipfarm acre		2.5 2.1
1 to 9 acres	farms acres	20,825 101,929	20.9 20.9	Corporation: Family heldfarm		2.4
10 to 49 acres	farms	72,856	8.2	acre	s 11,017,774	2.1
50 to 69 acres	acres farms	1,786,005 19,018	7.5 3.4	Other than family heldfarm acre		4.2 4.7
70 to 99 acres	acres	1,099,790	3.4	Other - cooperative, estate or trust, institutional, etc		
	acres	19,480 1,613,249	3.5 3.5	acre		3.0 5.6
100 to 139 acres	farms acres	20,550 2.369.174	3.4 3.4	Tenure:		
140 to 179 acres	farms	14,820	3.2	Full ownersfarm		3.3
180 to 219 acres	acres farms	2,340,631 10,449	3.2 3.4	Part ownersfarm		2.6 3.7
220 to 259 acres	acres	2,069,377 7,287	3.4 3.2	acre Tenantsfarm		3.0 6.5
	acres	1,733,051	3.2	acre		4.0
260 to 499 acres	farms acres	24,266 8,636,826	4.1 4.2	Principal operator characteristics by-		
500 to 999 acres	farms	17,309 11,970,791	5.1 5.1	Sex of operator: Malefarm	s 210,357	2.9
1,000 to 1,999 acres		11,139	4.0	acre	s 117,984,460	2.4
2,000 acres or more	acres farms	15,325,128 10,810	4.0 5.1	Femalefarm acre		12.3 8.4
_,	acres	81,107,487	3.2		12,100,010	
Irrigated land use:				Primary occupation: Farmingfarm	s 104,769	2.6
Harvested cropland	farms acres	15,184 4,174,843	5.2 5.1	Otherfarm	144,040	3.5
Pastureland and other land	farms	4,142	4.7	Spanish, Hispanic, or		
	acres	314,320	11.5	Latino origin (see text)farm		8.1 8.3
Market value of agricultural products sold	¢1 000	25,375,581	10.5	Race:	-, -, -	
·		25,375,561	10.5	American Indian or		
Farms by value of sales: Less than \$1,000	farms	80,196	7.1	Alaska Nativefarm		33.4 17.7
	\$1,000	9,827	10.3	Asianfarm	rs 718	11.3
\$1,000 to \$2,499	\$1.000	32,579 54,202	6.1 6.2	acre Black or African Americanfarm		9.8 36.8
\$2,500 to \$4,999	farms \$1,000	29,961 107,126	4.2 4.1	acre Native Hawaiian or		23.0
\$5,000 to \$9,999	farms	32,144	4.7	Other Pacific Islanderfarm		22.8
\$10,000 to \$19,999	\$1,000 farms	227,341 25,156	4.7 3.7	Acre Whitefarm		21.8 2.8
\$20,000 to \$24,999	\$1.000	352,121	3.7	acre	s 127,955,718	2.2
	1.000	6,625 146,500	3.9 3.9	More than one race reportedfarm acre		4.3 6.3
\$25,000 to \$39,999	farms \$1,000	11,250 351,993	5.9 5.8	Reporting primary occupation as		
\$40,000 to \$49,999	farms	4,255	5.7	farming by age group:		00.4
\$50,000 to \$99,999	\$1,000 farms	188,725 9,154	5.7 4.9	Under 25 years	s 413 s 3,484	22.1 22.9
\$100,000 to \$249,999	\$1,000 farms	634,276 7,631	4.9 8.7	35 to 44 years	s 5,931	15.9 5.7
	\$1,000	1,189,664	8.6	55 to 64 yearsfarm	s 25,774	4.3
\$250,000 to \$499,999	\$1,000	3,846 1,368,530	7.2 6.9	65 years and overfarm	s 54,476	2.3
\$500,000 to \$999,999	farms \$1,000	2,788 1,953,417	11.8 10.9	Reporting primary occupation as other than farming by age group:		
\$1,000,000 or more	farms	3,224	6.4	Under 25 yearsfarm		26.1
	\$1,000	18,791,859	14.0	25 to 34 years		30.1 15.3
Net cash farm income of operations (see text):				45 to 54 yearsfarm	s 37,997	6.1
Farms with gains of ¹ - Less than \$1,000		10,647	3.7	55 to 64 yearsfarm 65 years and overfarm	43,310 41,367	4.4 2.0
\$1,000 to \$4,999	\$1,000 farms	4,989 21,640	3.7 2.8	All operators by age group ² :		
	\$1,000	58,062	2.6	Under 25 yearsfarm	4,158	5.9
\$5,000 to \$9,999	\$1,000	11,976 85,736	2.5 2.5	25 to 34 years	s 37,447	17.3 11.3
\$10,000 to \$24,999	farms \$1,000	13,212 212,215	3.2 3.4	45 to 54 years	s 83,595	4.9 3.7
\$25,000 to \$49,999	farms	7,467	3.9	65 to 74 yearsfarm	rs 79,154	2.0
\$50,000 or more	\$1,000 farms	262,795 13,771	3.9 7.3	75 years and overfarm	44,838	1.8
φοσίοσο σι πιστο πιπιπιπιπιπιπιπιπιπιπιπιπιπιπιπιπιπιπι	\$1,000	4,620,778	5.6	Livestock and poultry:	454.000	0.0
Farms with losses of -				Cattle and calves inventoryfarm number	er 11,159,747	2.8 6.9
Less than \$1,000	farms 1.000	14,895 7,591	3.8 3.8	Beef cows inventoryfarm		2.6 3.4
\$1,000 to \$4,999	farms	53,748	4.2	Milk cows inventoryfram	s 985	11.3
\$5,000 to \$9,999	1,000 farms	154,719 39,020	4.1 4.0	numbe Hog and pigs inventoryfarm		6.1 9.3
\$10,000 to \$24,999	1,000	281,218	4.0	numbe	er 800,893	3.5
	1,000	38,534 600,350	3.4 3.2	Layers inventory farm numbe	er 20,902,244	7.9 35.7
\$25,000 to \$49,999	farms 1.000	13,735 471,933	2.9 2.8	Broilers soldfarm		12.3 14.8
\$50,000 or more	farms	10,164	2.9	Aquaculture soldfarm	s 257	7.9
	1,000	1,763,026	3.8	\$1,00	0 82,033	31.2
Farms by legal status for tax purposes: Family or individual	forme	222 500	2.1	Selected crops harvested: Corn for grainfarm	s 4,045	9.6
i aniiiy oi inuiviuuai	acres	222,580 82,792,493	3.1 2.6	Corn for grainarm		9.6 7.6
See footnote(s) at end of table.	L					continued

See footnote(s) at end of table.

Table B. Reliability Estimates of State Totals: 2012 (continued)

ltem	Total	Coefficient of variation (percent)	ltem	Total	Coefficient of variation (percent)
Selected crops harvested: - Con.			Selected crops harvested: - Con.		
Wheat, winter farms	7,366	5.6	Land in vegetables (see text)farms	2,296	13.4
Wheat, durum farms	2,989,113	2.9	acres Potatoes farms	124,133 577	15.3 12.3
acres		-	acres	22,535	28.1
Wheat, spring	49 4,856	16.7 22.4	Tomatoes in the open	1,087 2,096	13.6 59.5
Soybeans for beans farms	451	13.2	Sweet cornfarms	532	9.8
Sorghum for grain acres	107,909 4,521	7.9 7.2	acres Lettucefarms	4,726 102	36.4 20.5
acres	1,898,726	3.4	acres	340	75.9
Ricefarms	364	20.4	Land in orchardsfarms	6,966	3.4
Cotton farms	134,189 7,029	21.2 8.8	acres Applesfarms	204,305 390	7.3 6.9
acres	3,844,464	5.5	acres	476	23.0
Peanuts farms acres	552 148,795	6.4 10.1	Grapesfarms acres	678 7,092	8.5 48.3
Barley farms	58	15.2	Orangesfarms	371	12.7
Oatsfarms	6,952 809	26.1 5.0	Almondsfarms	7,831 13	22.3 26.3
acres	74,446	5.3	acres	24	81.9
Forest land used for all how and all			Land in berriesfarms	595	7.2 19.9
Forage - land used for all hay and all haylage, grass silage, and			acres	2,048	19.9
greenchop (see text)	86,456 5,069,579	2.6 4.0			

¹ Farms with production expenses equal to market value of agricultural products sold, government payments, and farm-related income are included as farms with gains of less than \$1,000. ² Data were collected for a maximum of three operators per farm.

Table C. Summary of Coverage, Nonresponse, and Misclassification Adjustments by County: 2012 [For meaning of abbreviations and symbols, see introductory text.]

[For meaning of abbreviations and symbols, see introductory text.]	, ,					
Geographic area	Total (number)	Standard error	Adjustment as percent of total	Percent of total adjustment from coverage	Percent of total adjustment from nonresponse	Percent of total adjustment from misclassification
ALL FARMS			51 15151	ge		
State Total						
Texas	248,809	7,373	36.7	12.5	16.8	7.4
Counties	2 10,000	.,6.0	30	12.0		
Andrews	2,001 169	66 19	37.9 37.1	13.3 15.9	16.4 14.5	8.3 6.7
Angelina	975	34 9	37.2 43.8	11.7	18.8 24.8	6.7 7.6
AransasArcher	100 531	28	34.0	11.4 7.8	21.6	4.6
Armstrong	281 1.987	10 50	35.7 42.5	7.6 13.6	17.5 21.5	10.6 7.4
Austin	2,098 494	64 25	35.1 37.3	11.2 7.1	16.6 20.7	7.3 9.4
Bailey Bandera	1,002	40	39.4	13.4	17.8	8.2
Bastrop	2,083	53	35.8	13.3	14.8	7.7
Baylor Bee	277 974	28 26	34.6 37.2	4.5 12.3	21.7 18.0	8.5 6.8
Bell	2,533	94	36.8	14.1	15.5	7.2
BexarBlanco	2,457 792	82 16	39.9 32.7	14.9 13.4	17.9 11.4	7.1 7.9
Borden	114 1,265	5 18	28.6 31.3	9.9 12.3	7.9 10.5	10.9 8.6
Bowie	1,619 3,091	60 234	36.9 43.4	12.6 16.8	16.2 20.1	8.0 6.5
Brazos Brewster	1,412 202	63 11	40.0 30.6	13.4 12.8	18.7 12.4	7.9 5.4
Briscoe	282 374	9 21	30.8 46.9	6.7 17.9	11.7 21.9	12.5 7.1
Brown	1,918 1,429	53 47	38.0 34.0	12.6 12.4	17.2 14.2	8.2 7.5
Burleson Burnet	1,481	42	36.2	14.3	13.6	8.4
CaldwellCalhoun	1,623 264	51 17	39.5 31.6	13.2 6.7	18.4 20.5	7.8 4.4
Callahan	992	24	33.8	10.5	15.5	7.9
Cameron	1,305	139 21	46.1 37.1	18.4 13.4	23.8	3.9 7.5
Carson	487 386	18	31.4	7.0	16.2 16.4	7.9
Cass	1,024 532	57 75	39.1 33.4	13.5 3.3	16.3 24.6	9.3 5.5
Chambers	734 1,574	69 54	43.3 37.5	12.2 10.6	24.7 19.9	6.4 7.1
Childress	383	17	36.0	6.6	20.6	8.8
Clay Cochran	861 288	24 7	30.2 29.9	8.3 6.3	14.6 10.5	7.3 13.1
Coke	443	17	37.8	13.8	15.2	8.8
Coleman	906 2,264	20 114	32.7 35.7	9.4 14.7	15.3 13.7	8.0 7.3
Collin	383	20	34.3	6.9	19.2	8.2
ColoradoComal	1,575 1,104	38 53	31.0 37.2	11.4 13.0	12.7 17.0	6.9 7.3
Concho	1,435 401	25 19	34.6 34.8	11.4 8.8	15.5 18.5	7.7 7.5
Cooke	1,946 1,308	40 43	32.9 34.8	11.4 12.2	14.4 15.1	7.1 7.5
Coryell	,					
Cottle	264 27	9	32.1 20.6	7.4 5.9	13.0 11.8	11.7 2.9
Crockett	216 431	12 20	31.0 30.8	14.1 5.3	12.4 17.0	4.5 8.5
Culberson	77 371	7 26	31.7 30.1	5.4 4.6	23.6	2.7 6.8
Dallam Dallas	839	120	45.7	16.7	18.7 21.4	7.6
Dawson Deaf Smith	596 621	26 33	33.9 32.8	6.0 6.0	15.9 18.5	12.0 8.3
Delta	529	20	37.1	10.6	20.0	6.5
Denton	3,203 1,711	292 29	40.4 29.1	14.0 10.3	19.7 12.4	6.8 6.4
DeWitt	437	19	29.4	6.3	13.8	9.4
Dimmit	367 380	15 10	44.5 27.8	17.2 7.1	20.8 12.8	6.5 7.8
Duval Eastland	1,436 1,174	81 27	49.7 33.4	17.9 11.4	23.3 14.4	8.4 7.6
Ector	264	30	42.6	17.7	20.1	4.8
Edwards	419 2,264	23 89	33.0 35.4	14.3 14.0	12.4 14.5	6.3 6.9
El Paso	657	89	41.1	24.5	15.8	0.9
Erath Falls	2,161 1,263	58 45	33.7 38.3	10.5 11.1	15.4 19.5	7.8 7.8
Fannin	2,515	85	36.3	11.6	17.7	7.0
FayetteFisher	2,822 588	40 20	29.4 34.7	10.9 8.9	11.2 16.5	7.3 9.3
FloydFoard	589 194	17 8	30.9 34.8	6.3 8.4	11.1 15.7	13.5 10.7
Fort Bend	1,286	75	36.9	13.0	17.2	6.8
Franklin	520	13	35.2	10.3	17.8	7.1
Freestone Frio	1,517 651	88 22	41.4 39.3	14.1 13.9	18.0 19.0	9.2 6.4
GainesGalveston	644 612	42 46	37.3 41.3	5.5 14.1	22.8 20.7	9.0 6.5
Surroutil	012	40	41.3	14.1	20.7	continued

Table C. Summary of Coverage, Nonresponse, and Misclassification Adjustments by County: 2012 (continued)

[For meaning of abbreviations and symbols, see introductory text.] Geographic area	Total (number)	Standard error	Adjustment as percent of total	Percent of total adjustment from coverage	Percent of total adjustment from nonresponse	Percent of total adjustment from misclassification
ALL FARMS - Con.	, ,		Oi totai	nom coverage	nonresponse	misclassification
Counties - Con.						
Garza	277	9	33.3	7.3	15.8	10.1
	1,847	42	32.8	12.7	12.0	8.1
	186	8	29.3	8.5	12.4	8.5
Goliad	1,175	29	35.4	11.1	17.2	7.0
	1,674	23	29.8	11.6	11.6	6.7
Gray	417	16	34.5	7.6	18.0	8.9
Grayson	2,562	81	34.4	13.0	13.7	7.7
GreggGrimes	527	59	44.1	17.3	17.5	9.2
	1,683	46	35.3	12.2	16.2	7.0
Guadalupe	2,241	65	34.5	14.1	12.9	7.5
HaleHall	899	54	36.5	6.6	20.6	9.3
	390	15	33.7	4.7	19.7	9.2
Hamilton	1,001	22	31.3	11.1	13.3	6.9
Hansford	263	30	32.6	3.4	25.3	4.0
HardemanHardin	357	13	34.0	7.0	18.3	8.7
	660	32	40.9	11.8	22.0	7.2
Harris	2,207	175	41.7	16.1	19.0	6.6
Harrison	1,298	55	41.4	13.8	19.5	8.1
Hartley	255	21	30.6	4.0	22.6	4.0
Haskell	503	20	30.4	7.0	13.2	10.2
Hays	1,439	92	43.3	13.1	22.1	8.1
Hemphill	232	9	31.6	6.6	18.4	6.6
HendersonHidalgo	1,961	70	35.9	12.8	15.4	7.7
	2,161	143	46.4	21.7	18.9	5.8
HillHockley	1,884	33	32.8	11.9	13.6	7.3
	781	30	34.0	7.3	16.4	10.3
HoodHopkins	1,286	66	37.5	13.1	16.4	8.0
	2,113	76	37.7	11.3	19.4	7.0
Houston	1,505	65	39.1	13.4	16.5	9.2
	475	12	34.1	11.0	14.0	9.1
Hudspeth	167	19	33.4	6.3	23.3	3.8
Hunt	4,206	192	38.5	14.6	16.7	7.3
	247	12	36.0	9.7	19.9	6.4
Hutchinson	155	15	26.0	8.9	11.2	5.9
Jackson	864	19	32.8	9.7	15.6	7.5
	811	31	34.1	9.1	19.0	6.0
Jasper	894	37	40.9	12.6	19.8	8.5
	84	3	22.9	10.8	6.0	6.0
Jefferson	764	41	39.6	14.4	18.6	6.6
	263	15	46.9	16.7	24.8	5.4
Jim Wells	1,047	47	43.7	17.3	19.8	6.6
Johnson	3,023	122	37.4	13.4	17.1	6.8
	1,014	37	35.2	9.1	17.6	8.4
Karnes	1,288	30	36.9	9.9	19.6	7.4
	3,041	122	37.8	12.9	17.2	7.6
KendallKenedy	1,387	50	39.4	15.1	16.6	7.7
	28	4	18.8	7.5	7.5	3.8
Kent	194	6	29.8	6.4	14.2	9.2
Kerr	1,034	34	35.8	15.4	11.9	8.5
Kimble	602	21	32.4	14.7	10.6	7.1
King	59	3	32.4	8.1	12.2	12.2
Kinney	196	17	33.4	14.2	14.7	4.4
Kleberg	401	28	43.9	16.2	21.8	5.9
Knox	228	13	31.8	5.4	20.3	6.2
Lamar	1,843	84	37.1	10.8	19.1	7.3
	933	62	36.4	4.4	24.6	7.3
Lamb	1,017 446	38 17	33.7 41.7	14.7	11.7	7.3
La Salle Lavaca	2,617	44 74	29.5	14.6 10.5	20.7 11.9	6.4 7.0
Lee	1,807		34.6	13.7	12.4	8.4
LeonLiberty	1,962	64	38.2	12.4	18.0	7.7
	1,470	78	39.8	15.1	16.9	7.8
Linestone	1,526	43	38.1	11.4	19.0	7.8
	277	8	26.2	6.2	9.6	10.4
Live OakLlano	892	24	40.1	11.5	21.2	7.3
	740	13	30.9	12.4	10.9	7.6
Loving	10	1	8.0	(Z)	8.0	(Z)
Lubbock	1,116	49	36.7	11.3	17.3	8.1
LynnMcCulloch	455	16	29.9	7.0	11.3	11.6
	619	13	34.4	12.4	13.9	8.1
McLennan	3,278	118	37.8	13.9	15.9	7.9
McMullen	238	13	36.5	11.9	18.1	6.6
	970	30	38.2	11.8	18.5	8.0
Marion	247	52	44.1	16.0	15.7	12.4
	414	24	34.2	8.0	14.1	12.1
Mason	640	12	28.4	10.5	10.5	7.3
Matagorda	856	40	35.5	11.2	18.8	5.5
Maverick	294	25	45.8	22.6	19.6	3.6
Medina	1,976	66	34.8	12.5	15.4	6.9
Menard	325	11	30.6	12.4	10.2	8.0
Midland	540	45	42.1	13.4	21.5	7.2
Milam	1,909	47	33.5	12.0	14.2	7.4
	870	33	34.2	1 <u>1</u> .6	15.3	7.3
Mitchell Montague	482	27	35.1	7.5	18.5	9.1
	1,454	25	31.9	10.6	13.7	7.5
Montgomery	1,601	118	41.7	13.0	21.7	7.0
	261	12	31.8	9.4	15.1	7.3
Morris	412	32	38.8	11.1	21.6	6.1

Table C. Summary of Coverage, Nonresponse, and Misclassification Adjustments by County: 2012 (continued) [For meaning of abbreviations and symbols, see introductory text.]

Geographic area	Total (number)	Standard error	Adjustment as percent of total	Percent of total adjustment from coverage	Percent of total adjustment from nonresponse	Percent of total adjustment from misclassification
ALL FARMS - Con.						
Counties - Con.						
Motley	224	6	29.4	8.3	10.8	10.3
Nacogdoches	1,196	49	38.7	9.5	22.3	7.0
Navarro	2,573 450	98 36	40.7 43.8	14.8 12.1	18.1 22.4	7.9 9.3
Nolan	478	14	31.0	8.4	13.3	9.2
Nueces	754 348	51 14	39.2 30.8	14.0 7.1	20.3 14.5	4.9 9.1
Oldham	159	8	34.7	5.3	16.0	13.3
Orange	671 1,329	52 55	40.4 36.9	13.7 11.2	20.8 18.3	5.9 7.5
PanolaParker	1,079 4,370	43 214	38.6 37.6	11.9 14.1	19.4 16.1	7.4 7.5
Parmer	570	37	28.2	3.9	18.2	6.0
Pecos	291 738	16 30	28.3 40.6	9.4 13.2	14.3 19.2	4.6 8.2
Potter	258	21	36.9	15.0	16.4	5.5
Presidio	162	13 27	37.2	12.0	19.8	5.4 8.4
Rains	682 892	43	36.5 38.2	11.8 9.9	16.3 20.4	7.9
Reagan	135	7	33.4	8.9	18.6	5.9
Real	241	10	35.5	15.5	12.8	7.3
Red River	1,139	48	35.2	11.4	15.3	8.5
Refugio	240 259	25 12	39.1 35.3	7.8 9.4	24.6 20.9	6.8 4.9
Roberts	107	8	27.9	4.8	17.3	5.8
Robertson	1,520 440	68 31	38.6 36.4	11.2 13.6	19.1 16.3	8.2 6.5
Runnels	925	21	31.9	9.4	13.5	9.0
Rusk	1,390 201	48 11	38.5 40.4	11.9	18.4 20.0	8.2 6.4
Sabine	201	11	40.4	14.0	20.0	0.4
San Augustine	305 791	14	37.9	10.7	21.6	5.6
San Jacinto	791	58 23	43.9 37.7	12.1 13.4	20.8 18.9	10.9 5.4
San Saba	744	19	31.6	12.6	11.2	7.7
Schleicher	310 677	16 23	32.2 35.7	11.5 10.3	14.6 13.0	6.1 12.3
Shackelford	233	4	25.4	8.5	10.0	7.0
ShelbySherman	1,048 313	41 10	37.9 27.7	8.8 5.5	23.3 11.1	5.8 11.1
Smith	2,961	180	39.6	15.9	15.3	8.4
Somervell	350	7	35.8	12.7	14.4	8.7
Starr	1,165	68	52.3	18.0	28.2	6.2
Sterling	452 73	15 3	37.5 26.1	8.9 10.4	21.0 10.4	7.7 5.2
Stonewall	356	13	35.3	7.9	16.6	10.8
Sutton	218 565	11 23	24.3 36.5	12.2 6.3	8.7 20.8	3.5 9.5
Swisher Tarrant	1,278	116	38.7	16.3	16.0	6.4
Taylor	1,149	29	35.0	11.1	15.3	8.5
Terrell	86	7	22.3	11.1	8.7	2.5
Terry	630	28	35.3	6.7	17.4	11.1
Throckmorton	275 801	15 24	27.5 38.2	7.4 12.1	12.8 18.4	7.4 7.7
Tom Green	1,203	69	35.2	12.5	17.3	5.5
Travis	1,132 604	54 23	38.1 39.5	14.2 10.6	16.2 21.9	7.6 7.0
Tyler	727	30	40.3	10.9	21.7	7.6
Upshur	1,754 101	89 7	39.2 34.5	13.0 12.4	19.0 16.5	7.2 5.5
Uvalde	640	33	36.6	9.7	19.9	7.1
Val Verde	421	29	41.9	22.0	16.2	3.7
Van Zandt	2,915	75	32.7	13.4	11.8	7.4
Victoria	1,533	43	36.9	11.5	18.7	6.6
WalkerWaller	1,560 1,927	115 91	41.9 38.6	15.1 15.6	18.2 15.9	8.6 7.1
Ward	93	8	37.1	13.8	18.1	5.2
Washington	2,697 696	100 32	34.2 45.4	11.9 18.6	14.0 21.9	8.3 4.9
Wharton	1,553	130	39.4	9.6	24.0	5.7
Wheeler	551	15	30.3	9.1	11.5	9.7
Wichita	639	21	35.2	11.6	17.1	6.5
Wilbarger	424	19 30	32.4	7.6	18.8	5.9 4.2
Willarson	321 2,542	107	40.8 34.6	21.0 13.6	15.7 14.1	4.2 6.9
Wilson	2,444	59	35.8	13.2	15.5	7.1
Winkler	43 3,095	8 116	21.1 35.0	7.7 13.7	12.4 13.8	1.0 7.5
Wood	1,465	40	33.7	12.7	13.2	7.8
Young	339 795	22 18	35.6 34.4	4.6 11.3	21.0 15.8	9.9 7.2
•						
ZapataZavala	449 287	19 8	50.9 37.0	22.8 12.1	22.5 17.1	5.7 7.8
	207	0	37.0	12.1	17.1	7.0
LAND IN FARMS						
State Total						
Texas	130,153,438	3,008,411	19.8	4.9	11.2	3.7
						continued

Table C. Summary of Coverage, Nonresponse, and Misclassification Adjustments by County: 2012 (continued)

[For meaning of abbreviations and symbols, see introductory text.] Geographic area	Total (number)	Standard error	Adjustment as percent of total	Percent of total adjustment from coverage	Percent of total adjustment from nonresponse	Percent of total adjustment from misclassification
LAND IN FARMS - Con.			or total	nom coverage	Потпеоропос	misolassinaation
Counties						
Anderson	375,110 752,030	19,453 26,991	30.0 4.3	7.8 2.0	16.3 0.8	5.9 1.5
Andrews	116.977	5,999	37.5	6.5	24.5	6.5
Aransas	39,844	968	12.8	3.5	7.7	1.6
Archer	541,467	29,219 22,207	20.9 23.2	4.0 4.6	14.3	2.5
Armstrong	434,272 665,287	46,655	30.0	6.5	12.7 18.7	5.9 4.7
Austin	369,960	17,210	30.7	6.6	19.0	5.2
Bailey Bandera	471,624 402,481	22,388 20,803	25.2 33.1	3.3 11.7	14.4 15.1	7.5 6.4
Dandera	402,401	20,003	55.1	11.7	10.1	0.4
Bastrop	387,586	36,777	28.1	5.9	17.0	5.2
Baylor	543,638 538,807	9,785 30,978	7.5 21.5	1.0 5.0	5.0 13.6	1.5 3.0
Bell	421,362	13,823	29.1	6.4	17.3	5.4
Bexar	342,882	9,986	29.5	7.7	16.9	5.0
Blanco	363,990 464,270	16,330 13,339	24.5 8.3	9.4 3.5	9.7 2.2	5.4 2.6
Bosque	569,644	49,661	22.6	7.6	10.5	4.5
Bowie	273,107 631,021	10,170 27,129	30.4 31.0	5.8 5.1	19.6 22.0	5.0 3.9
Brazoria	031,021	27,129	31.0	5.1	22.0	3.9
Brazos	299,108	20,113	28.2	7.4	15.4	5.4
Brewster Briscoe.	1,912,726 524,239	81,296 21,828	7.3 16.1	4.5 4.9	2.2 4.9	0.6 6.3
Brooks	572,917	47,797	11.2	4.8	5.3	1.1
Brown	595,312	36,286	25.9	7.6	12.5	5.8
Burleson	335,346 485,277	14,442 40,355	29.5 28.9	6.4 7.2	18.2 15.8	4.9 5.8
Caldwell	310,433	8,933	29.4	6.2	18.0	5.1
Callaban Callaban	184,094	25,136	21.6	1.9	18.3	1.4
Callahan	563,179	39,984	18.4	3.0	11.9	3.4
Cameron	309,700	29,557	32.2	4.7	23.7	3.8
Carpon	78,238 484,876	6,160 21,492	34.3 22.1	6.4 3.1	21.4 13.6	6.5 5.4
Cass	167,578	6,367	33.1	11.1	14.8	7.3
Castro	548,142	48,080	23.1	1.3	16.9	4.9
Chambers	253,743 301,338	18,348 17.240	25.2 31.4	3.9 5.1	18.3 21.4	3.0 4.9
Childress	443,797	35,338	21.1	6.1	11.1	3.9
Clay	632,567	20,374	20.6	4.5	12.1	4.0
Cochran	448,719	23,329	17.1	2.1	6.6	8.3
Coke	484,333	35,883	26.1	5.4	15.4	5.3
Coleman	725,738 312,806	29,189 10,568	25.5 30.4	6.1 6.5	14.4 18.0	5.0 6.0
Collingsworth	494,805	28,288	19.7	4.6	11.4	3.7
Colorado	485,121	24,139	24.3	5.7	14.7	3.9
Comal	205,018 517,135	7,259 17,086	31.2 26.6	8.5 6.2	16.3 15.4	6.5 5.0
Concho	501,597	18,853	23.3	5.3	13.1	4.9
Cooke	503,827 463,039	28,166 21,923	26.2 28.2	5.3 6.6	16.2 16.0	4.7 5.5
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Cottle	564,617 239,159	14,577 19,247	9.2 3.2	2.8 2.5	3.5 0.5	2.9 0.3
Crane Crockett	1,546,202	45,569	9.4	5.2	2.9	1.3
Crosby	558,372	16,099	10.9	1.3	6.1	3.5
Culberson Dallam	1,618,007 851,947	94,193 42.460	6.6 18.5	0.7 3.0	5.5 9.8	0.3 5.7
Dallas	83,754	17,101	39.8	4.5	31.1	4.2
Dawson	558,085	22,638	20.0	2.8	8.2	9.0
Deaf Smith Delta	923,532 131,212	35,516 16,524	21.1 31.8	2.6 6.1	10.9 20.2	7.6 5.5
Denton DeWitt	383,533 536,411	11,302 39,035	29.8 25.1	6.3 4.6	17.9 17.2	5.6 3.3
Dickens	572,617	15,318	8.9	1.7	4.6	2.6
Dimmit	677,023	43,271	18.0	6.4	9.6	2.0
Donley Duval	585,096 959,630	11,724 45,975	5.3 29.1	1.4 11.1	2.7 13.1	1.3 4.9
Eastland	503,633	18,593	26.0	7.5	13.0	5.5
Ector	428,848	55,199	9.3	3.9	3.8	1.6
EdwardsEllis	969,873 473,860	62,051 9,360	16.8 26.2	6.5 6.7	8.4 14.8	1.9 4.6
			05.0	40.5		
El Paso Erath	209,393 607,550	13,461 18,447	25.8 26.4	13.5 6.1	8.3 14.5	4.0 5.8
Falls	382,651	12,231	29.5	4.6	20.5	4.3
Fannin	513,651	31,229	29.9	5.0	20.7	4.3
FayetteFisher	492,038 494,955	15,070 35,412	25.9 24.2	7.6 5.4	12.0 13.2	6.4 5.5
Floyd	581,997	17,756	17.1	3.2	5.5	8.4
Foard	368,143	24,608	15.6	4.0	6.9	4.7
Fort BendFranklin	339,295 113,015	25,821 3,145	27.1 32.4	3.5 9.2	20.5 15.9	3.1 7.3
FrioFrio	421,303 713,262	20,720 29,742	29.4 30.7	6.7 7.8	17.4 18.9	5.2 4.1
Gaines	774,822	33,279	21.7	7.8 2.8	11.9	7.0
Galveston	89,554	6,384	37.9	8.0	24.9	5.0
GarzaGillespie	455,569 652,247	39,313 27,632	12.8 28.8	3.1 7.9	6.5 13.8	3.1 7.0
Glasscock	433,706	18,274	14.5	4.0	5.9	4.6
Goliad	494,930	20,019	22.9	8.2	10.8	3.9
						continued

Table C. Summary of Coverage, Nonresponse, and Misclassification Adjustments by County: 2012 (continued) [For meaning of abbreviations and symbols, see introductory text.]

About Abou	[For meaning of abbreviations and symbols, see introductory text.] Geographic area	Total (number)	Standard error	Adjustment as percent	Percent of total adjustment	Percent of total adjustment from	Percent of total adjustment from
Countries	LAND IN FARMS - Con	(111111111)		of total	from coverage	nonresponse	misclassification
Company 16,100							
Section							
Cargon							
A							
Quanting							
Helle							
Hamsten 440,777 580,795 580	Hale	640,609	51,563	30.1	2.2	20.9	7.0
Handerdan							
Hardin							
Harden	Hardaman	254 640	20 620	20.0	4.4	11.1	4.5
Herrish 229,402 16,164 31,9 70 20,2 43,8							
Harriery	Harris	236,402	18,184		7.0	20.2	4.8
Hashell							
Heinpall							
Henderson							
Histign							
Hockey					11.8		7.4
Hockey	Hill	504 129	10 430	24.5	5.9	14.3	4.3
Hopkins	Hockley	483,775	25,102	23.8	3.3	11.8	8.7
House							
Howard							
Herl	Howard						
Hutchinson							
Section	Hutchinson	520,950	35,531				2.1
Jackson	Irion	496,136	28,765	10.3	3.8	4.6	1.8
Jackson	Jack		17,414	21.1	6.2	10.8	4.1
Jeff Davis	Jackson		43,644		2.8		3.1
Jefferson							
Jum Verilis	Jefferson	353,971	48,950	21.6	4.5	14.3	2.8
Johnson							
Jones	Johnson						
Martina	Jones						
Kendall 368,951 14,883 34,9 8,9 10,0 6,9 Kendy 915,300 10,055 0,8 0,2 0,6 0,1 Kent 95,300 15,437 6,8 10,8 3,4 1,6 Kent 963,122 15,437 6,8 10,8 3,4 1,6 King 962,20 23,38 22,3 8,9 8,2 1,6 King 417,597 19,639 5,3 2,6 1,4 1,3 King 417,597 19,639 5,3 2,6 1,4 1,3 King 417,597 19,639 5,3 2,6 1,4 1,3 King 47,675 19,431 8,9 5,7 2,5 1,7 King 450,631 38,056 14,2 3,0 7,0 43 Lamar 460,631 38,056 14,2 3,0 7,0 43 Lamar 44,705 13,13 16,0 4,2	Karnes	464,641	27,389	29.8	5.8	19.2	4.7
Kenedy							
Kent							
Kimble	Kent	563,124	15,437	6.6	1.9	3.5	1.2
King 417,597 19,639 5.3 2.6 1.4 1.3 Kinney 576,745 19,413 9.9 5.7 2.5 1.7 Kiberg 444,137 11,285 5.6 0.7 4.3 0.5 Kiberg 496,571 24,741 28.0 4.8 18.8 4.4 Lama 496,571 24,741 28.0 4.8 18.8 4.4 Lamb 616,260 42,043 27.4 2.2 20.4 4.7 Lamb 616,260 42,043 27.4 2.2 20.4 4.7 Lamb 616,260 42,043 27.4 2.2 20.4 4.7 Lambers 48,675 18,139 16,00 4.0 8.7 3.3 Lee 318,216 6,758 29.3 8.4 14.7 6.2 Lee 318,216 6,758 29.3 8.4 14.7 6.2 Lee 318,233 1,60 8.5	Kimble						
Kleberg	King	417,597	19,639	5.3	2.6	1.4	1.3
Knox.							
Lamb 616,260 42,043 27.4 2.2 20.4 4.7 Lampasas 444,755 18,139 116.0 4.0 8.7 3.3 La Salle 634,847 44,816 2.7 10.1 14.8 2.8 Lawaca 364,646 21,394 24.5 6.6 12.7 5.2 Lee 318,219 6,765 29.3 8.4 14.7 6.2 Lee 318,219 6,755 29.3 8.4 14.7 6.2 Lee 326,733 24,88 3.16 7.5 15.8 7.2 Linety 486,787 49,123 29.3 5.9 18.7 4.8 Lipscomb 591,326 13,107 11.7 22.2 5.0 4.5 Live Oak 50,710 14,172 30.0 8.3 16.7 5.0 Lipscomb 50,257 49,123 29.9 5.5 23.3 0.2 Liw Oak 50,257 21,222 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>							
Lamb 616,260 42,043 27.4 2.2 20.4 4.7 Lampasas 444,755 18,139 116.0 4.0 8.7 3.3 La Salle 634,847 44,816 2.7 10.1 14.8 2.8 Lawaca 364,646 21,394 24.5 6.6 12.7 5.2 Lee 318,219 6,765 29.3 8.4 14.7 6.2 Lee 318,219 6,755 29.3 8.4 14.7 6.2 Lee 326,733 24,88 3.16 7.5 15.8 7.2 Linety 486,787 49,123 29.3 5.9 18.7 4.8 Lipscomb 591,326 13,107 11.7 22.2 5.0 4.5 Live Oak 50,710 14,172 30.0 8.3 16.7 5.0 Lipscomb 50,257 49,123 29.9 5.5 23.3 0.2 Liw Oak 50,257 21,222 <t< td=""><td>Lamor</td><td>406 E71</td><td>24 744</td><td>20.0</td><td>4.0</td><td>10.0</td><td>4.4</td></t<>	Lamor	406 E71	24 744	20.0	4.0	10.0	4.4
La Salle 634,847 44,816 2.77 10.1 14.8 2.8 Lavaca 546,546 21,334 24.5 6.6 12.7 5.2 Lee 318,216 6,758 29.3 8.4 14.7 6.2 Leon 594,393 25,155 27.9 7.6 15.4 4.9 Liberty 286,793 14,893 31.6 8.5 15.8 7.2 Liberty 286,793 14,893 31.6 8.5 15.8 7.2 Liberty 286,793 14,893 31.6 8.5 15.8 7.2 Liberty 466,77 49,123 29.3 5.9 18.7 4.8 Lipscomb 591,326 13,107 11.7 2.2 50.0 4.5 Lipscomb 591,326 13,107 11.7 2.2 50.0 4.5 Lipscomb 591,326 23,27 29.0 0.5 2.3 12.1 Lipscomb 591,326 24.6							4.4
Lavaca	Lampasas	444,755					3.3
Lee							
Liberty	Lee	318,216	6,758	29.3	8.4	14.7	6.2
Limestone 486,787 49,123 29,3 5,9 18.7 4.8 Lipscomb 591,326 13,107 11,7 22 50 4.5 Live Oak 540,710 14,172 30.0 8.3 16.7 5.0 Liano 528,018 24,665 22.1 7.3 10.1 4.7 Loving 379,524 32,175 2.9 0.5 2.3 0.2 Lubbock 502,571 21,329 26.4 3.5 15.0 7.9 McCulloch 614,353 17,525 22.8 6.5 11.5 4.8 McLennan 551,472 35,288 20.4 6.2 10.5 3.7 McMillen 517,425 35,288 20.4 6.2 10.5 3.7 Macison 291,350 13,987 26.7 3.6 17.0 4.1 Marin 45,3712 38,200 23.3 3.1 13.8 6.5 Mason 56,80,55 4.2 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
Live Oak				29.3	5.9		
Llano	Lipscomb	591,326	13,107	11.7	2.2	5.0	4.5
Loving. 379.524 32,175 2.9 0.5 2.3 0.2 Lubbook. 502,571 21,329 26.4 3.5 15.0 7.9 Lynn 472,170 24,883 18.1 2.6 5.9 9.5 Lynn 472,170 24,883 18.1 2.6 5.9 9.5 Lynn 45,353 17,525 22.8 6.5 11.5 4.8 McCulloch 553,517 18.878 31.3 6.1 19.7 5.5 McMollen 553,517 18.878 31.3 6.1 19.7 5.5 McMollen 551,725 35,258 20.4 6.2 10.5 3.7 Madison 291,350 13,987 26.7 5.6 17.0 4.1 Marin 40,124 3,678 37.3 11.1 15.7 10.5 Marin 453,712 38,200 23.3 3.1 13.8 6.5 Mason 551,268 24,108	Live Oak	540,710	14,172	30.0	8.3	16.7	5.0
Lubbock 502,571 21,329 264 3.5 15.0 7.9 Lynn 472,170 24,883 18.1 2.6 5.9 9.5 McCulloch 614,353 17,525 22.8 6.5 11.5 4.8 McLennan 553,517 18,878 31.3 6.1 19.7 5.5 McMullen 517,425 35,258 20.4 6.2 10.5 3.7 Madison 291,350 13,987 26.7 5.6 17.0 4.1 Marin 40,124 3,678 37.3 11.1 15.7 10.5 Mason 453,712 38,200 23.3 3.1 13.8 6.5 Mason 551,268 24,108 23.7 7.3 11.4 5.0 Matagorda 568,055 45,217 21.2 4.2 14.2 2.8 Maverick 540,869 41,048 17.5 11.4 4.2 1.9 Median 536,552 30,705 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>4.7</td>							4.7
Lynn 472,170 24,683 18.1 2.6 5.9 9.5 McCulloch 614,353 17,525 22.8 6.5 11.5 4.8 McLennan 553,517 18,878 31.3 6.1 19,7 5.5 McMullen 517,425 35,258 20.4 6.2 10.5 3.7 Maclison 291,350 13,987 26.7 5.6 17.0 4.1 Marion 40,124 3,678 37.3 11.1 15.7 10.5 Martin 453,712 38,200 23.3 3.1 13.8 6.5 Mason 551,268 24,108 23.7 7.3 11.4 5.0 Matagorda 568,055 45,217 21.2 4.2 14.2 2.8 Maverick 540,859 41,048 17.5 11.4 4.2 2.8 Mecina 833,587 16,508 17.3 5.3 9.0 3.0 Merard 536,652 30,705<			32,175 21.329				
McLenan 553,517 18,878 31.3 6.1 19.7 5.5 McMullen 517,425 35,258 20.4 62 10.5 3.7 Madison 291,350 13,987 26.7 5.6 17.0 4.1 Marion 40,124 3,678 37.3 11.1 15.7 10.5 Martin 453,712 38,200 23.3 3.1 13.8 6.5 Mason 551,268 24,108 23.7 7.3 11.4 5.0 Matagorda 568,055 45,217 21.2 42 14.2 2.8 Maverick 540,869 41,048 17.5 11.4 4.2 1.9 Medina 833,587 16,508 17.3 5.3 9.0 3.0 Menard 536,662 30,705 20.0 9.0 5.9 5.0 Millan 404,361 19,224 20.6 4.3 12.4 3.9 Milora 471,393 18,666	Lynn	472,170	24,683	18.1	2.6	5.9	9.5
McMulen. 517,425 35,258 20.4 6.2 10.5 3.7 Madison. 291,350 13,987 26.7 5.6 17.0 4.1 Marion. 40,124 3,678 37.3 11.1 15.7 10.5 Martin. 453,712 38,200 23.3 3.1 13.8 6.5 Mason. 551,268 24,108 23.7 7.3 11.4 5.0 Matagorda. 568,055 45,217 21.2 4.2 14.2 2.8 Maverick. 540,869 41,048 17.5 11.4 4.2 1.9 Menard. 833,587 16,508 17.3 5.3 9.0 3.0 Menard. 833,587 16,508 17.3 5.3 9.0 3.0 Menard. 93,085 20.0 9.0 5.9 5.0 Midlan. 404,361 19,224 20.6 4.3 12.4 3.9 Milam. 527,871 12,886 27.	McCulloch	614,353 553 517		22.8 31.3			
Marion 40,124 3,678 37.3 11.1 15.7 10.5 Martin 453,712 38,200 23.3 3.1 13.8 6.5 Mason 551,268 24,108 23.7 7.3 11.4 5.0 Matagorda 568,055 45,217 21.2 4.2 14.2 2.8 Maverick 540,869 41,048 17.5 11.4 4.2 1.9 Medina 833,587 16,508 17.3 5.3 9.0 3.0 Menard 536,562 30,705 20.0 9.0 5.9 5.0 Midland 404,361 19,224 20.6 4.3 12.4 3.9 Millam 527,871 12,886 27.0 6.4 15.3 5.3 Mills 471,393 18,666 26.6 7.6 14.0 5.0 Mitchell 573,130 14,030 9.0 2.1 5.0 2.0 Montagomery 488,672 27,774 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
Martin 453,712 38,200 23.3 3.1 13.8 6.5 Mason 551,268 24,108 23.7 7.3 11.4 5.0 Matagorda 568,055 45,217 21.2 4.2 14.2 2.8 Maverick 540,869 41,048 17.5 11.4 4.2 1.9 Medina 833,587 16,508 17.3 5.3 9.0 3.0 Menard 536,562 30,705 20.0 9.0 5.9 5.0 Midland 404,361 19,224 20.6 4.3 12.4 3.9 Milam 527,871 12,886 27.0 6.4 15.3 5.3 Milse 471,393 18,666 26.6 7.6 14.0 5.0 Mortague 488,672 22,761 25.8 6.4 13.4 5.9 Montgomery 155,362 7,774 34.9 9.5 19.3 6.0 Morie 25,3650 23,690							
Mason 551,268 24,108 23.7 7.3 11.4 5.0 Matagorda 568,055 45,217 21.2 4.2 14.2 2.8 Maverick 540,869 41,048 17.5 11.4 4.2 1.9 Medina 833,587 16,508 17.3 5.3 9.0 3.0 Menard 536,562 30,705 20.0 9.0 5.9 5.0 Midlad 404,361 19,224 20.6 4.3 12.4 3.9 Milam 527,871 12,886 27.0 6.4 15.3 5.3 Mills 471,393 18,666 26.6 7.6 14.0 5.0 Milchell 573,130 14,030 9.0 2.1 5.0 2.0 Montague 488,672 22,761 25.8 6.4 13.4 5.9 Morries 523,650 23,690 15.4 3.7 7.9 3.9 Morries 91,874 24,858	Wallon	40,124	3,076	37.3	11.1	15.7	10.5
Matagorda. 568,055 45,217 21.2 4.2 14.2 2.8 Maverick. 540,869 41,048 17.5 11.4 4.2 1.9 Medina 833,587 16,508 17.3 5.3 9.0 3.0 Menard. 536,562 30,705 20.0 9.0 5.9 5.0 Midland. 404,361 19,224 20.6 4.3 12.4 3.9 Milam. 527,871 12,886 27.0 6.4 15.3 5.3 Mills. 471,393 18,666 26.6 7.6 14.0 5.0 Mitchell. 573,130 14,030 9.0 2.1 5.0 2.0 Montague 488,672 22,761 25.8 6.4 13.4 5.9 Montgomery 155,362 7,774 34.9 9.5 19.3 6.0 Morris 29,1874 24,858 27.1 3.5 21.4 2.2 Motley 91,874 24,858 27.1 3.5 21.4 2.2 Motley 99,487	Martin						
Maderick. 540,869 41,048 17.5 11.4 4.2 1.9 Medina 833,587 16,508 17.3 5.3 9.0 3.0 Menard 536,562 30,705 20.0 9.0 5.9 5.0 Midland 404,361 19,224 20.6 4.3 12.4 3.9 Millam 527,871 12,886 27.0 6.4 15.3 5.3 Mills 471,393 18,666 26.6 7.6 14.0 5.0 Mitchell 573,130 14,030 9.0 2.1 5.0 2.0 Montague 488,672 22,761 25.8 6.4 13.4 5.9 Montgomery 155,362 7,774 34.9 9.5 19.3 6.0 Moore 523,650 23,690 15.4 3.7 7.9 3.9 Morris 91,874 24,858 27.1 3.5 21.4 2.2 Nacogdoches 595,487 19,014 </td <td>Mason</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Mason						
Menard 536,562 30,705 20.0 9.0 5.9 5.0 Midland 404,361 19,224 20.6 4.3 12.4 3.9 Millam 527,871 12,886 27.0 6.4 15.3 5.3 Mills 471,393 18,666 26.6 7.6 14.0 5.0 Mitchell 573,130 14,030 9.0 2.1 5.0 2.0 Montague 488,672 22,761 25.8 6.4 13.4 5.9 Montgomery 155,362 7,774 34.9 9.5 19.3 6.0 Moore 523,650 23,690 15.4 3.7 7.9 3.9 Morris 91,874 24,858 27.1 3.5 21.4 2.2 Motley 595,487 19,014 11.7 2.1 6.9 2.8 Nacogdoches 264,818 22,939 34.8 5.0 24.9 4.9 Navarro 58,782 4,841		540,869	41,048	17.5	11.4	4.2	1.9
Midland. 404,361 19,224 20.6 4.3 12.4 3.9 Mills 527,871 12,886 27.0 6.4 15.3 5.3 Mills 471,393 18,666 26.6 7.6 14.0 5.0 Mitchell 573,130 14,030 9.0 2.1 5.0 2.0 Montague 488,672 22,761 25.8 6.4 13.4 5.9 Montgomery 155,362 7,774 34.9 9.5 19.3 6.0 Moore 523,650 23,690 15.4 3.7 7.9 3.9 Morris 91,874 24,858 27.1 3.5 21.4 2.2 Motley 595,487 19,014 11.7 2.1 6.9 2.8 Nacogdoches 264,818 22,939 34.8 5.0 24.9 4.9 Navarro 558,096 24,394 30.2 7.8 16.6 5.7 Newton 58,782 4,841 27.8 4.5 18.0 5.2							
Milam 527,871 12,886 27.0 6.4 15.3 5.3 Mills 471,393 18,666 26.6 7.6 14.0 5.0 Milchell 573,130 14,030 9.0 2.1 5.0 2.0 Montague 488,672 22,761 25.8 6.4 13.4 5.9 Montgomery 155,362 7,774 34.9 9.5 19.3 6.0 Moore 523,650 23,690 15.4 3.7 7.9 3.9 Morris 91,874 24,858 27.1 3.5 21.4 2.2 Motley 595,487 19,014 11.7 2.1 6.9 2.8 Nacogdoches 264,818 22,939 34.8 5.0 24.9 4.9 Navarro 558,096 24,394 30.2 7.8 16.6 5.7 Newton 58,782 4,841 27.8 4.5 18.0 5.2							
Mitchell. 573,130 14,030 9.0 2.1 5.0 2.0 Montague 488,672 22,761 25.8 6.4 13.4 5.9 Montgomery 155,362 7,774 34.9 9.5 19.3 6.0 Moore 523,650 23,690 15.4 3.7 7.9 3.9 Morris 91,874 24,858 27.1 3.5 21.4 2.2 Motley 595,487 19,014 11.7 2.1 6.9 2.8 Nacogdoches 264,818 22,939 34.8 5.0 24.9 4.9 Navarro 558,096 24,394 30.2 7.8 16.6 5.7 Newton 58,782 4,841 27.8 4.5 18.0 5.2	Milam	527,871	12,886	27.0	6.4	15.3	5.3
Montague 488,672 22,761 25.8 6.4 13.4 5.9 Montgomery 155,362 7,774 34.9 9.5 19.3 6.0 Moore 523,650 23,690 15.4 3.7 7.9 3.9 Morris 91,874 24,858 27.1 3.5 21.4 2.2 Motley 595,487 19,014 11.7 2.1 6.9 2.8 Nacogdoches 595,487 19,014 11.7 2.1 6.9 2.8 Navarro 558,096 24,394 30.2 7.8 16.6 5.7 Newton 58,782 4,841 27.8 4.5 18.0 5.2							
Montgomery 155,362 7,774 34.9 9.5 19.3 6.0 Moore 523,650 23,690 15.4 3.7 7.9 3.9 Morris 91,874 24,858 27.1 3.5 21.4 2.2 Motley 595,487 19,014 11.7 2.1 6.9 2.8 Nacogdoches 28,4818 22,939 34.8 5.0 24.9 4.9 Navarro 558,096 24,394 30.2 7.8 16.6 5.7 Newton 58,782 4,841 27.8 4.5 18.0 5.2							
Moore 523,650 23,690 15.4 3.7 7.9 3.9 Morris 91,874 24,858 27.1 3.5 21.4 2.2 Motley 955,487 19,014 11.7 2.1 6.9 2.8 Nacogdoches 264,818 22,939 34.8 5.0 24.9 4.9 Navarro 558,096 24,394 30.2 7.8 16.6 5.7 Newton 58,782 4,841 27.8 4.5 18.0 5.2							
Morris. 91,874 24,858 27.1 3.5 21.4 2.2 Motley. 595,487 19,014 11.7 2.1 6.9 2.8 Nacogdoches 264,818 22,939 34.8 5.0 24.9 4.9 Navarro 558,096 24,394 30.2 7.8 16.6 5.7 Newton 58,782 4,841 27.8 4.5 18.0 5.2			7,774 23 690				
Nacogdoches 264,818 22,939 34.8 5.0 24.9 4.9 Navarro 558,096 24,394 30.2 7.8 16.6 5.7 Newton 58,782 4,841 27.8 4.5 18.0 5.2	Morris	91,874	24,858	27.1	3.5	21.4	2.2
Navarro 558,096 24,394 30.2 7.8 16.6 5.7 Newton 58,782 4,841 27.8 4.5 18.0 5.2	MotieyNacondoches	595,487 264 818	19,014 22 939				2.8 4 a
Newton	Navarro	558,096	24,394	30.2	7.8	16.6	5.7
continued	Newton	58,782	4,841	27.8	4.5	18.0	

Table C. Summary of Coverage, Nonresponse, and Misclassification Adjustments by County: 2012 (continued)

[For meaning of abbreviations and symbols, see introductory text.]	, ,			T		
Geographic area	Total (number)	Standard error	Adjustment as percent of total	Percent of total adjustment from coverage	Percent of total adjustment from nonresponse	Percent of total adjustment from misclassification
LAND IN FARMS - Con.			51 15151	gc		
Counties - Con.						
Nolan	465,160	25,050	15.7	3.1	8.8	3.8
Nueces	523,933	20,362	13.5	3.0	7.9	2.7
Ochiltree Oldham	544,623 830.427	23,745 50.176	20.2 6.0	3.3 1.0	10.0 3.8	6.8 1.2
Orange	52,799	7,127	30.8	5.0	21.5	4.4
Palo Pinto Panola Panola	593,309 227,367	42,838 20,578	21.9 33.5	3.7 6.6	15.5 19.6	2.6 7.3
Parker	494,492	18,074	31.4	6.3	19.6	5.5
ParmerPecos	553,724 2,947,905	30,590 61,137	13.6 6.2	1.6 3.2	8.5 2.4	3.5 0.6
		·				
Polk Potter	139,199 568,641	9,389 18,199	34.1 9.8	8.5 4.0	18.9 4.5	6.8 1.3
Presidio	1,655,540	104,425	9.7	6.2	2.2	1.3
Rains	116,853 570,991	14,175 49,599	34.6 25.5	6.7 3.6	22.3 14.5	5.6 7.3
Reagan	698,550	24,549	10.0	4.7	4.4	0.9
Real	320,572 448,634	16,904 19,572	18.9 25.8	11.9 5.3	4.8 16.0	2.2 4.5
Reeves	1,235,728	55,315	10.1	2.1	6.5	1.5
Refugio	474,709	73,007	10.9	2.8	6.4	1.8
Roberts	562,448	50,014	10.5	1.3	8.2	1.1
Robertson	467,568 45,399	26,377 5,253	26.6 30.3	5.4 6.6	16.7 17.7	4.6 5.9
Runnels	665,905	17,117	17.9	5.1	7.6	5.1
Rusk	274,327 29,035	13,298 2,711	29.6 38.8	7.2 14.6	16.8 18.6	5.6 5.7
San Augustine	72,890	11,412	28.0	7.5	16.4	4.2
San Jacinto	111,900 374,100	14,849 15,445	30.3 23.0	6.0 5.9	17.1 12.7	7.3 4.3
San Saba	671,092	26,704	22.0	8.6	7.5	5.8
Cablaighar	833,569	31,635	15.1	5.0	7.4	2.7
Schleicher	494,353	57,011	22.4	5.6	9.4	7.5
Shackelford	505,228	40,114 8,807	11.3 34.5	4.8 6.2	3.9 23.7	2.6 4.5
ShelbySherman	197,189 583,168	11,830	11.1	1.9	4.4	4.8
Smith	302,339	14,613	33.8	12.4	14.1	7.3
Somervell	91,368 668,724	8,168 32,829	29.1 38.5	8.4 13.2	14.6 20.7	6.1 4.7
Stephens	516,748	16,761	25.2	6.7	13.8	4.7
Sterling	585,066	64,806	14.5	7.3	5.1	2.2
Stonewall Sutton	472,890 910,984	21,028 50,425	21.7 12.4	4.3 6.7	12.5 4.7	4.9 0.9
Swisher	545,582	18,268	25.0	3.3	14.7	7.0
Tarrant	145,661	6,251	28.6 21.0	7.8 4.3	15.8	5.0
Taylor Terrell	578,912 1,100,763	18,377 72,835	8.6	3.6	12.4 4.5	4.3 0.6
Terry	442,100 508,002	18,414	23.5	2.8	11.9	8.8
Throckmorton	146,541	16,938 25,882	12.0 24.3	4.5 6.6	4.1 13.0	3.4 4.7
Tom Green	956,852	57,149	8.0	1.8	5.2	1.0
Travis	252,686	13,118	34.6	8.9	20.5	5.2
Trinity Tyler	111,262 90,670	4,351 7,002	29.8 35.0	7.3 8.3	16.9 20.0	5.6 6.7
Upshur	202,377	9,823	35.5	7.0	23.5	5.0
Upton	686,231 977,281	22,964 34,626	9.8 8.9	3.8 2.3	4.9 5.2	1.1 1.4
Uvalde Val Verde	1,497,074	60,395	11.6	7.2	3.4	1.1
Van Zandt	370,603 437,805	13,701 21,465	29.4 23.6	8.7 4.8	13.8	7.0 3.4
VictoriaWalker	280,512	19,335	32.6	8.2	15.4 18.5	5.4 5.9
Waller	314,981	31,919	30.7	5.4	20.5	4.8
Waller Ward	391,653	29,850	4.7	1.5	2.6	0.6
Washington	368,823 2,098,378	13,203 123,196	27.6 20.6	6.8 7.4	15.5 11.5	5.3 1.6
WebbWharton	660,701	46,796	27.0	3.2	20.8	3.0
Wheeler	519,217	10,489	17.8	5.4 3.1	6.9	5.5 3.4
WichitaWilbarger	366,787 587,173	20,733 30,970	16.7 10.2	2.2	10.1 5.5	2.6
Willacy	336,075	43,596	24.4 27.9	8.1	11.4	4.9 4.8
Williamson	558,622	22,540		5.5	17.6	4.0
Wilson	439,689	23,161	30.4	6.8	19.3	4.3
WinklerWise	533,464 487,078	23,285 19,428	2.7 30.3	0.7 6.6	1.6 17.4	0.4 6.3
Wood	227,338	8,252	30.3	7.2	18.0	5.0
YoakumYoung	488,493 523,673	50,737 28,522	26.3 19.8	2.1 4.5	18.2 11.7	6.0 3.7
Zapata	563,146	34,244	44.5	18.0	22.9	3.5
Zavala	692,850	14,374	16.1	6.9	6.1	3.2
SALES						
State Total						
Texas	25,375,581	2,666,227	14.2	1.9	10.7	1.6
Counties						
Anderson	44,579	4,156	23.4	5.7	14.2	3.5
Andrews	12,578	2,654	9.3	1.8	6.1	1.3

Table C. Summary of Coverage, Nonresponse, and Misclassification Adjustments by County: 2012 (continued) [For meaning of abbreviations and symbols, see introductory text.]

Part	[For meaning of abbreviations and symbols, see introductory text.]	1					
SALES Confirmer Cont	Geographic area			Adjustment as percent of total			Percent of total adjustment from misclassification
Agents	SALES - Con.						
American	Counties - Con.						
American	Angelina	16 118	9.677	32.5	3.6	26.8	2.1
Aresterord	Aransas	1,075	71	17.4	4.9	10.2	2.3
Association							
Agen							
Banders	Austin	43,542	5,730	29.5	3.5	23.2	
Bartop							
Bear	Bastrop	35,318				15.5	5.8
Ball	Baylor	44,738	5,242	9.2	0.3	5.5	3.4
Section	Bee	26,044	3,071	25.7	2.9	19.9	2.8
Service 19,140 6,677 11 9 3.0 4.9 3.1 3.1 3.5 4.9 3.1 3.5 4.9 3.1 3.1 3.5 4.9 3.1 3.1 3.5 4.9 3.1	Bell	84,880			3.3		2.9
Berden	Blanco						
Boule	Borden	9,437		6.9			1.9
Brazolia							
Brazos							
Browne	Brazos						2.7
Brooks	Brewster	9,903	905	11.4	3.6	6.8	1.0
Bown							
Burleson							
Burnet							
Cathoun	Burnet						5.8
Calibration	Calhoun						
Camp. 137,666 24,953 17.3 4.7 11.1 1.5 Carson. 82,286 5540 92 15 3.3 2.3 Cass. 67,954 25,951 28.9 3.2 23.6 2.1 Cass. 13,121,40 45,0530 4.5 Cass. 13,121,40 45,0530 4.5 Cheroke. 13,384 25,054 16.5 1.1 Cheroke. 13,384 25,054 16.5 1.1 Cheroke. 13,384 25,054 16.5 1.1 Cheroke. 13,274 21,452 12.7 1.7 Cheroke. 10,077 21,452 12.7 1.7 Cheroke. 10,077 21,452 12.7 1.7 Coloral 28,376 27,22 26.3 4.4 Colored 7,011 28,380 28,480 28,68 3.0 Colored 7,011 28,380 28,48 28,68 3.0 Colored 7,011 28,380 28,48 28,68 3.0 Colored 7,011 28,380 28,380 22,280 Colored 7,011 28,380 28,380 28,380 Colored 7,011 28,380 Colo	Callahan	29,901	3,408	18.4	3.9	11.0	3.5
Colors							
Cases 67,694 25,911 29.9 3.2 23.6 2.1 Carbon 13,72,140 450,503 4.5 Carbon 13,72,140 450,503 4.5 Cherche 13,994 25,064 16.5 4.1 10.6 1.9 Childress 13,994 25,064 16.5 4.1 10.6 Childress 13,994 25,064 25,064 27,7 27,7 2.2 Collin 77,812 72,02 23.4 22 17,9 3.3 Collingmonth 13,994 16,000 11.0 10.0 Collin 14,994 16,000 11.0 10.0 Comande 16,000 11.0 10.0 10.0 Comande 16,000 11.0 10.0 10.0 Condende 18,156 15,474 18.0 18.4 18.0 19.4 Corolle 18,156 15,474 18.0 19.4 18.0 19.4 Corolle 18,156 15,474 18.0 19.4 18.0 19.4 Corolle 18,156 15,474 18.0 19.4 19.4 Corolle 18,156 15,678 25.9 12.2 24.6 11.1 Corolle 13,158 61.5 12.3 12.2 24.6 11.1 Corolle 13,158 61.5 12.3 12.2 24.6 11.1 Corolle 13,158 61.5 12.3 12.2 24.6 13.1 Corolle 13,158 61.5 12.3 12.2 24.6 13.1 Corolle 13,158 61.5 12.3 12.2 24.6 13.1 Corolle 13,158 61.5 12.3 13.1 12.2 Corolle 13,158 61.5 13.3 13.1 13.1 Corolle 13,158 61.5 13.3 13.1 Corolle 13		,	,				
Castro. 1.312 / 140 450,630 4.5 0.4 3.7 0.4 Chambers. 25,583 12,744 26.3 1.4 25.5 1.1 2.5 1.1 2.5 1.1 2.5 1.1 1.2 1.0	Carson					5.3	
Chambres 25,593 12,748 26.3 1.2 23.7 1.4 1.0 1.9							
Childress 19,871 3,664 16,2 12 13,2 19,	Chambers	25,593	12,748	26.3	1.2	23.7	1.4
Clay							
Coke 7,011 684 266 3.0 17-9 5.7 Colim 23,376 2,722 263 4.4 17.8 4.0 Colim 77,812 17,262 23.4 2.2 17.9 3.3 Colorado. 67,390 11,550 25.4 2.2 20.7 2.5 Corond. 156,03 11,550 25.4 2.2 20.7 2.5 Condel. 28,391 1,772 18.7 3.8 10.9 40.0 Coche 22,839 1,772 18.7 3.8 10.9 40.0 Coche 63,319 4,102 34.2 4.6 24.5 5.1 Coryel. 68,530 15,852 28.9 1.2 24.6 1.1 Coryel. 17,140 14 5.8 3.1 2.0 0.7 Crosty. 7,1589 6.18 13.3 1.1 8.4 2.0 0.7 Crosty. 7,1589 6.18 <td< td=""><td>Clay</td><td>79,810</td><td>21,172</td><td>28.8</td><td></td><td></td><td>6.0</td></td<>	Clay	79,810	21,172	28.8			6.0
Colema 28,376 2,722 26,3 4.4 17.9 4.0 Collin 77,812 17,262 23.4 2.2 17.0 3.3 Collingsworth 43,199 3,537 16.4 1.3 12.4 2.7 Comal (6) (79,80) 11,500 2.5 2.2 20.7 2.5 Comal (6) (79,80) 11,500 (79,80) (10,00) (10	Cochran						
Collingworth 43,109 3.637 16.4 1.3 1.7 3.2 Collings 43,109 3.637 16.4 1.3 1.2,2 2.07 2.2 Colorado. 67,980 11,550 26.4 2.2 20,7 2.5 Commanche 1581,366 15,474 8.0 1.9 4.9 1.2 Conche 22,830 1,772 8.7 3.8 1.09 4.9 1.2 Conchel 86,550 15,688 26.9 1.2 2.4 1.1 Cordie 15,905 2.752 12.8 2.8 6.6 3.4 Crane 1,410 14 5.8 3.1 2.0 0.7 Crockett 13,884 862 7.3 4.3 2.2 8.8 Crosby 17,589 6.118 13.3 1.1 8.4 3.7 Criberson 13,734 2.390 1.48 1.9 11.0 1.9 Criberson 13,734 <td>Coleman</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Coleman						
Collingsworth				00.4	0.0	47.0	0.0
Colorido	Collingsworth						3.3 2.7
Comanche 158,136 15,474 8.0 1.9 4.9 1.2 Conche 22,830 1,772 18,2 3.8 10.9 4.0 Cooke 63,319 4,128 3.4 2.2 2.4 2.4 5.1 Coule 15,905 2,752 12.8 2.2 2.6 6.3 3.4 Crae 11,410 1.4 5.8 3.1 2.0 0.7 Crocket 11,894 66.15 1.3 1.1 8.4 2.2 0.7 Crocket 17,899 6.15 1.3 1.1 8.4 3.9 0.0 Crocket 17,734 2.390 14.8 1.9 11.0 1.9 Crocket 18,754 2.990 6.15 4.3 1.9 11.0 1.9 Crocket 18,754 2.990 6.15 4.3 4.9 0.0 Cuberton 18,754 2.990 14.8 1.9 11.0 1.9 1.0	Colorado	67,980	11,550	25.4	2.2	20.7	2.5
Conche 22,830 1,772 18,7 38 10,9 4.0 Cooke 63,319 4,102 34.2 4.6 24.5 5.1 Coryell 68,550 15,568 26,9 1.2 24.6 1.1 Crafe 11,906 2,752 12.8 2.8 6.6 3.4 Crafe 11,410 3.8 46 2.7 12.8 2.8 6.6 3.4 Crockett 13,884 862 7.3 4.3 2.2 0.8 Crosby 17,599 6,118 13.3 1.1 8.4 3.7 Crobin 13,734 2,399 14.8 1.9 11.0 1.9 Dallam 661,714 16,852 5.4 0.8 3.3 0.6 Dallam 661,714 16,852 5.4 0.8 3.2 0.6 Dawson 73,129 3,722 15.5 1.1 9.1 9.2 Detal 12,24 3.5	Comancho						(D)
Coryell 68,550 15,658 26,9 1,2 24,6 1,3 Crane 115,905 2,752 12,8 2,8 6,6 3,4 Crane 11,410 144 5,8 3,1 2,0 0,7 Crockett 13,884 862 7,3 4,3 2,2 0,8 Crosby 71,589 6,118 13,3 1,1 8,4 3,7 Cuberson 13,734 2,390 14,8 1,9 11,0 1,9 Dallam 651,714 163,826 5,4 0,8 3,9 0,6 Dallam 44,489 2,986 2,62 2,4 22,6 3,2 Denson 17,706 3,056 5,7 1,24 1,8 1,6 1,6 Delta 2,2346 4,765 30,7 1,2 1,8 1,6 1,6 1,6 1,6 1,6 1,6 1,6 1,6 1,6 1,6 1,6 1,6 1,6 1,6	Concho	22,830	1,772	18.7		10.9	4.0
Corfie 15,905 2,752 12.8 2.8 6.6 3.4 Crane 1,410 144 5.8 3.1 2.0 0.7 Crocket 13,894 862 7.3 4.3 2.2 0.8 Crobby 17,599 6,118 13.3 1.1 8.4 3.7 Cuberson 13,734 2,390 14.8 1.9 11.0 1.9 Dallam 651,714 163,262 5.4 0.8 3.9 0.6 Dallas 44,489 20,966 28.2 2.4 22.6 3.2 Dawson 73,129 3,722 15.5 1.1 9.1 5.2 Delat 29,344 4,789 30.2 2.4 3.8 1.6 Delat 82,344 4,789 30.2 2.1 3.8 1.6 Delat 81,545 1,740 31.4 3.6 25.2 2.6 Dickens 18,526 1,249 1.2 1.6 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
Crane 1,410 144 5.8 3.1 2.0 0.7 Crockett 13,894 862 7.3 4.3 2.2 0.8 Croby 71,589 6,110 13.3 1.1 8.4 3.7 Culberson 83,774 18,306 14.4 18 110 1.9 Ballas 94,444 18,306 22.2 2.4 2.26 1.0 Dallas 94,449 20,965 22.2 2.4 2.26 1.0 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
Crosby. 71,589 6,118 13.3 1.1 8.4 3.7 Cubberson. 13,734 2,390 14.8 1.9 11.0 1.9 Dallam. 651,774 163,826 5.4 0.8 3.9 0.6 Dawson. 73,926 20,965 28.2 2.4 22.6 3.2 Dawson. 73,926 0.72 1.7 2.4 3.1 5.6 Delta. 29,346 4,785 30.5 5.1 21.8 3.6 Delta. 136,995 100.059 12.2 2.3 7.8 2.2 Dewlitt 61,350 15,179 31.4 3.6 25.2 2.6 Dickens. 18,526 1,249 12.9 1.6 8.5 2.7 Dirumi 35,216 34,737 7.3 1.8 4.3 1.2 Dovely. 95,128 32,662 5.2 1.5 2.8 0.9 Duval. 12,975 4.8 3.7		1,410	144	5.8	3.1	2.0	0.7
Crosby. 71,589 6,118 13.3 1.1 8.4 3.7 Cubberson. 13,734 2,390 14.8 1.9 11.0 1.9 Dallam. 651,774 163,826 5.4 0.8 3.9 0.6 Dawson. 73,926 20,965 28.2 2.4 22.6 3.2 Dawson. 73,926 0.72 1.7 2.4 3.1 5.6 Delta. 29,346 4,785 30.5 5.1 21.8 3.6 Delta. 136,995 100.059 12.2 2.3 7.8 2.2 Dewlitt 61,350 15,179 31.4 3.6 25.2 2.6 Dickens. 18,526 1,249 12.9 1.6 8.5 2.7 Dirumi 35,216 34,737 7.3 1.8 4.3 1.2 Dovely. 95,128 32,662 5.2 1.5 2.8 0.9 Duval. 12,975 4.8 3.7	Crockett	13 894	862	7.3	4.3	22	0.8
Ballam 661,774 163,826 5.4 0.8 3.9 0.6 Dallas 44,489 20,965 2.82 2.4 22,6 3.2 Dawson 73,129 3,722 15.5 1.1 9.1 5.2 Delta 29,346 4,785 30.5 5.1 21.8 3.6 Delta 29,346 4,785 30.5 5.1 21.8 3.6 Delta 10,000 10,000 12.2 2.3 7.8 2.2 DeWit 61,350 15,179 31.4 3.6 25.2 2.6 Divers 18,526 1,249 11.6 8.5 2.7 2.7 Divers 35,216 34,737 7.3 1.8 4.3 1.2 2. Dovely 35,218 34,737 7.3 1.8 4.3 1.2 2. 1.0 2. 2.0 1.0 2. 2.0 1.0 2.0 2.2 2.0 1.0 2.0 <	Crosby	71,589	6,118	13.3	1.1	8.4	3.7
Dallas 44,489 20,965 28.2 2.4 22.6 3.2 Dawson 73,129 3,722 15.5 1.1 9.1 5.2 Deaf Smith 1,379,076 205,266 9.7 2.4 5.8 1.6 Delta 29,346 4,785 30.5 5.1 21.8 3.6 Denton 136,995 100,059 12.2 2.3 7.8 2.2 Dicken 18,566 1,499 12.9 1.6 8.5 2.7 Dickens 18,526 1,499 12.9 1.6 8.5 2.7 Dickens 95,128 32,662 5.2 1.5 2.8 0.9 Dival 95,128 32,662 5.2 1.5 2.8 0.9 Dival 14,803 1,388 37.8 9.2 2.32 5.4 Ector 2,190 4.4 1.3 1.6 2.7 1. Ector 2,190 4.2 1.3 1.							
Deaf Smith 1,379,076 205,266 9,7 2,4 5,8 1,6 Delta 29,346 4,785 30,5 5,1 21,8 3,6 Denton 136,995 100,059 12,2 2,3 7,8 2,2 DeWitt 61,350 15,179 31,4 3,6 25,2 2,6 Dickens 18,526 1,249 12,9 1,6 8,5 2,7 Dimit 35,216 34,737 7,3 1,8 4,3 1,2 Donley 95,128 32,662 5,2 1,5 2,8 0,9 Duval 14,803 1,388 3,7 9,2 23,2 5,4 Ector 2,199 440 24,6 6,8 15,5 2,2 Etwards 8,16 8,15 2,2 1,3 1,3 1,3 1,3 1,3 1,3 1,3 1,3 1,3 1,3 1,3 1,3 1,3 1,3 1,3 1,3 1,3							
Delta 29,346 4,785 30.5 5.1 21.8 3.6 Derton 136,995 10,29 12.2 2.3 7.8 2.2 DeWitt 61,350 15,179 31.4 3.6 25.2 2.6 Dickens 18,526 1,249 12.9 1.6 8.5 2.7 Dirmit 35,216 34,737 7.3 1.8 4.3 1.2 Donley 95,128 32,662 5.2 1.5 2.8 0.9 Duval 14,803 1,358 37.8 9.2 23.2 5.4 Eastland 27,875 4,888 29.7 6.3 16.2 7.1 Ector 2,190 440 24.0 6.8 15.1 2.2 Edwards 8,164 79.3 16.8 6.5 8.5 1.9 Ellis 91,390 12,479 20.9 4.2 13.0 3.7 El Paso 45,535 5,168 33.9							
Denton. 136,995 100,059 12.2 2.3 7.8 2.2 DeWitt 61,350 15,179 31.4 3.6 25.2 2.6 Dickens. 18,526 1,249 12.9 1.6 8.5 2.7 Dirmit. 35,216 34,737 7.3 1.8 4.3 1.2 Dorley. 95,128 32,662 5.2 1.5 2.8 0.9 Duval 14,803 1,358 37.8 9.2 23.2 5.4 Ector. 2,190 440 24.0 6.8 15.1 2.2 Edwards. 8,164 793 16.8 6.2 8.5 1.9 Ellis 91,390 12,479 20.9 4.2 13.0 3.7 Erath 256,445 36,460 10.9 6.6 18.2 9.6 Falls 133,296 37,631 18.8 1.2 16.3 1.3 Falls 13,3294 363 28 <	Delta						
Dickens	Denton	136,995	100,059	12.2	2.3	7.8	2.2
Dimmit. 35,216 34,737 7,3 1.8 4,3 1,2 Donley. 95,128 32,662 52 1,5 2.8 0,9 Dwal. 14,803 1,358 37,8 9,2 23,2 5,4 Estland. 27,875 4,888 29,7 6,3 16,2 7,1 Ecto. 2,190 440 24,0 6,8 15,1 22 Edwards. 8,164 793 16,8 6,5 8,5 1,9 Ellis. 91,390 12,479 20,9 4,2 13,0 3,7 Ell Paso. 45,535 5,168 33,9 6,1 18,2 9,6 Erath 256,445 36,460 10,9 0,6 9,4 0,9 Falls 135,296 37,631 18,8 1,2 16,3 1,3 Fannin 71,141 17,962 2,46 3,0 1,6 3,0 Fayette 66,358 8,348 2,87	DeWitt	61,350	15,179	31.4	3.6	25.2	2.6
Donley 95,128 32,662 5.2 1.5 2.8 0.9 Duval 14,803 1,358 37.8 9.2 23.2 5.4 Eastland 27,875 4,888 29.7 6.3 16.2 7.1 Ector 2,190 440 24.0 6.8 15.1 2.2 Edwards 8,164 793 16.8 6.5 8.5 1.9 Ellis 91,390 12,479 20.9 4.2 13.0 3.7 El Paso 45,535 5,168 33.9 6.1 18.2 9.6 Erath 256,445 36,460 10.9 0.6 9.4 0.9 Falls 31,5296 37,631 18.8 1.2 16.3 1.3 Fannin 71,141 17,962 24.6 3.0 18.6 3.0 Fayette 66,358 8,348 28.7 6.3 16.3 6.1 Fisher 31,099 4,288 17.3 <							
Duval 14,803 1,358 37.8 9.2 23.2 5,4 Eastland 27,875 4,888 29.7 6.3 16.2 7.1 Ector 2,190 440 24.0 6.8 15.1 2.2 Edwards 8,164 793 16.8 6.5 8.5 1.9 Ellis 91,390 12,479 20.9 4.2 13.0 3.7 El Paso 45,535 5,168 33.9 6.1 18.2 9.6 Erath 256,445 36,460 10.9 0.6 9.4 0.9 Falls 135,296 37,631 18.8 1.2 16.3 1.3 Fannin 71,141 17,962 24.6 3.0 18.6 3.0 Fayette 66,358 8,348 28.7 6.3 16.3 6.1 Fayette 31,089 4,288 17.3 1.7 13.2 2.4 Foyd 28,2743 263,556 2.8	Dimmit						
Eastland 27,875 4,888 29,7 6.3 16.2 7.1 Ector 2,190 440 24,0 6.8 15,1 2.2 Edwards 8,164 793 16.8 6.5 8.5 1.9 Ellis 91,390 12,479 20.9 4.2 13.0 3.7 Ell Paso 45,535 5,168 33.9 6.1 18.2 9.6 Erath 256,445 36,460 10.9 0.6 9.4 0.9 Falls 135,296 37,631 18.8 1.2 16.3 1.3 Fannin 71,141 17,962 24.6 3.0 18.6 3.0 Fayette 66,358 8,348 28.7 6.3 16.3 61.3 Fisher 31,089 4,288 17.3 1.7 13.2 2.4 Floyd 282,743 263,556 2.8 0.7 1.2 1.0 Ford Bend 13,827 827 18.8	Duval						
Edwards 8,164 793 16.8 6.5 8.5 1.9 Ellis 91,390 12,479 20.9 4.2 13.0 3.7 El Paso 45,535 5,168 33.9 6.1 18.2 9.6 Erath 256,445 36,460 10.9 0.6 9.4 0.9 Falls 135,296 37,631 18.8 1.2 16.3 1.3 Fannin 71,141 17,962 24.6 3.0 18.6 3.0 Fayette 66,358 8,348 28.7 6.3 16.3 6.1 Fisher 31,089 4,288 17.3 1.7 13.2 2.4 Foard 282,743 263,556 2.8 0.7 1.2 1.0 Foard 103,787 34,187 20.2 2.8 13.2 4.2 For Bend 85,976 10,425 31.7 4.2 24.9 2.6 Franklin 85,976 10,425 31.7 <td>Eastland</td> <td>27,875</td> <td></td> <td></td> <td></td> <td></td> <td></td>	Eastland	27,875					
Ellis 91,390 12,479 20.9 4.2 13.0 3.7 El Paso. 45,535 5,168 33.9 6.1 18.2 9.6 Falls 256,445 36,460 10.9 0.6 9.4 0.9 Falls 135,296 37,631 18.8 1.2 16.3 1.3 Fannin 71,141 17,962 24.6 3.0 18.6 3.0 Fayette 66,588 8,348 28.7 6.3 16.3 6.1 Fisher 31,089 4,288 17.3 1.7 13.2 2.4 Floyd 282,743 263,556 2.8 0.7 1.2 1.0 Foard 282,743 263,556 2.8 0.7 1.2 1.0 Foard 13,827 827 18.8 2.0 12.9 3.9 For Bend 10,3787 34,187 20.2 2.8 13.2 4.2 Franklin 85,976 10,425 31.7 <td>Edwards</td> <td>2,190 8.164</td> <td></td> <td></td> <td></td> <td></td> <td></td>	Edwards	2,190 8.164					
Erath 256,445 36,460 10.9 0.6 9.4 0.9 Falls 135,296 37,631 18.8 1.2 16.3 1.3 Fannin 71,141 17,962 24.6 3.0 18.6 3.0 Fayette 66,358 8,348 28.7 6.3 16.3 6.1 Fisher 31,089 4,288 17.3 1.7 13.2 2.4 Floyd 282,743 263,556 2.8 0.7 1.2 1.0 Foard 82,743 263,556 2.8 0.7 1.2 1.0 Foard 13,827 827 18.8 2.0 12.9 3.9 For Bend 103,787 34,187 20.2 2.8 13.2 4.2 Freestone 44,082 14,546 22.5 3.5 15.9 3.1 Frio 40,402 14,546 22.5 3.5 15.9 3.1 Frio (D) (D) (D)	Ellis	91,390	12,479	20.9	4.2	13.0	3.7
Falls 135,296 37,631 18.8 1.2 16.3 1.3 Fannin 71,141 17,962 24.6 3.0 18.6 3.0 Fayette 66,358 8,348 28.7 6.3 16.3 6.1 Fisher 31,089 4,288 17.3 1.7 13.2 2.4 Floyd 282,743 263,556 2.8 0.7 1.2 1.0 Foard 31,827 827 18.8 2.0 12.9 3.9 Fort Bend 103,787 34,187 20.2 2.8 13.2 4.2 Franklin 85,976 10,425 31.7 4.2 24.9 2.6 Freestone 44,082 14,546 22.5 3.5 15.9 3.1 Gaines 180,470 12,491 21.5 1.1 15.4 5.1 Galveston (D)							
Fannin. 71,141 17,962 24.6 3.0 18.6 3.0 Fayette. 66,358 8,348 28.7 6.3 16.3 6.1 Fisher 31,089 4,288 17.3 1.7 13.2 2.4 Floyd 282,743 263,556 2.8 0.7 1.2 1.0 Foard. 13,827 827 18.8 2.0 12.9 3.9 Fort Bend 103,787 34,187 20.2 2.8 13.2 4.2 Franklin 85,976 10,425 31.7 4.2 24.9 2.6 Freestone 44,082 14,546 22.5 3.5 15.9 3.1 Frio. 183,672 20,166 36.1 6.5 26.3 3.3 Gaines. 180,470 12,491 21.5 1.1 15.4 5.1 Galveston (D)							
Fayette 66,358 8,348 28.7 6.3 16.3 6.1 Fisher 31,089 4,288 17.3 1.7 13.2 2.4 Floyd 282,743 263,556 2.8 0.7 1.2 1.0 Foard 13,827 827 18.8 2.0 12.9 3.9 Fort Bend 103,787 34,187 20.2 2.8 13.2 4.2 Franklin 85,976 10,425 31.7 4.2 24.9 2.6 Freestone 44,082 14,546 22.5 3.5 15.9 3.1 Frio 180,470 12,491 21.5 1.1 15.4 5.1 Galveston (D)	Falls						
Fisher 31,089 4,288 17.3 1.7 13.2 2.4 Floyd 282,743 263,556 2.8 0.7 1.2 1.0 Foard 13,827 827 18.8 2.0 12.9 3.9 Fort Bend 103,787 34,187 20.2 2.8 13.2 4.2 24.9 2.6 Franklin 85,976 10,425 31.7 4.2 24.9 2.6 Freestone 44,082 14,546 22.5 3.5 15.9 3.1 Frio 183,672 20,166 36.1 6.5 26.3 3.3 Gaines 180,470 12,491 21.5 1.1 15.4 5.1 Galveston (D)							
Foard 13,827 827 18.8 2.0 12.9 3.9 Fort Bend 103,787 34,187 20.2 2.8 13.2 4.2 Franklin 85,976 10,425 31.7 4.2 24.9 2.6 Freestone 44,082 14,546 22.5 3.5 15.9 3.1 Frio 183,672 20,166 36.1 6.5 26.3 3.3 Gaines 180,470 12,491 21.5 1.1 15.4 5.1 Gaiveston (D) (D) </td <td>Fisher</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Fisher						
Fort Bend 103,787 34,187 20.2 2.8 13.2 4.2 Franklin 85,976 10,425 31.7 4.2 24.9 2.6 Freestone 44,082 14,546 22.5 3.5 15.9 3.1 Frio 183,672 20,166 36.1 6.5 26.3 3.3 Gaines 180,470 12,491 21.5 1.1 15.4 5.1 Galveston (D)	Foard						
Franklin 85,976 10,425 31.7 4.2 24,9 2.6 Freestone 44,082 14,546 22.5 3.5 15.9 3.1 Frio 183,672 20,166 36.1 6.5 26.3 3.3 Gaines 180,470 12,491 21.5 1.1 15.4 5.1 Galveston (D) (D	Fort Bend	103,787	34,187	20.2	2.8	13.2	4.2
Frio. 183,672 20,166 36.1 6.5 26.3 3.3 Gaines. 180,470 12,491 21.5 1.1 15.4 5.1 Galveston (D) (D	Franklin						
Gaines 180,470 12,491 21.5 1.1 15.4 5.1 Galveston (D) (D) <td></td> <td></td> <td>20,166</td> <td></td> <td></td> <td></td> <td></td>			20,166				
Galveston (D) (
Garza 12,385 1,357 17,1 2,2 9,4 5,4 8,8 8,8 8,8 1,325 1,0 1,4 3,9 4,9 9,9 9,9 1,0 <							
Gillespie 46,140 25,894 37.0 10.7 17.6 8.8 Glassock 25,878 2,971 10.3 1.4 3.9 4.9 Goliad 19,445 1,325 29.2 6.0 17.9 5.3 Gonzales 517,760 74,340 15.5 1.9 12.6 1.0 Gray 207,677 18,012 3.1 0.5 2.2 0.4	Garza	12,385	1,357	17.1	2.2	9.4	5.4
Goliad 19,445 1,325 29.2 6.0 17.9 5.3 Gonzales 517,760 74,340 15.5 1.9 12.6 1.0 Gray 207,677 18,012 3.1 0.5 2.2 0.4	Gillespie	46,140	25,894				
Gonzales 517,760 74,340 15.5 1.9 12.6 1.0 Gray 207,677 18,012 3.1 0.5 2.2 0.4	Goliad						
	Gonzales	517,760	74,340	15.5	1.9	12.6	1.0
	Gray	207,677	18,012	3.1	0.5	2.2	

Table C. Summary of Coverage, Nonresponse, and Misclassification Adjustments by County: 2012 (continued)

[For meaning of abbreviations and symbols, see introductory text.]									
Geographic area	Total (number)	Standard error	Adjustment as percent of total	Percent of total adjustment from coverage	Percent of total adjustment from nonresponse	Percent of total adjustment from misclassification			
SALES - Con.			51 15151	go					
Counties - Con.									
Grayson	91,948	25,287	29.5	5.7	17.0	6.9			
Gregg	3,607	506	40.8	9.3	22.6	8.9			
GrimesGuadalupe	48,052 61,591	6,492 7.550	21.0 30.3	3.7 7.0	14.7 18.6	2.6 4.7			
Hale	409,930	13,390	9.2	0.5	7.3	1.4			
Hall Hamilton	24,751 55,828	2,154 3,889	15.7 18.1	1.0 2.1	12.3 14.1	2.5 1.9			
Hansford	783,207	342,512	2.5	0.5	1.8	0.2			
Hardeman Hardin	25,362 (D)	5,558 (D)	11.7 (D)	1.3 (D)	8.2 (D)	2.2 (D)			
	` ′	` ,	` '	` '	, ,	, ,			
Harris Harrison	65,190 18,991	15,065 7,167	29.2 29.4	9.1 1.6	14.8 26.3	5.2 1.5			
Hartley	1,180,897	323,977	2.8	1.5	1.2	0.1			
HaskellHays	38,671 14,970	5,491 1,746	21.2 25.5	3.9 5.9	8.9 15.1	8.5 4.6			
Hemphill	110,552	77,812	3.3	1.1	1.6	0.6			
HendersonHidalgo	49,521 452,766	22,414 64,839	16.1 31.8	3.5 10.3	9.1 15.4	3.5 6.1			
Hill	119,939	8,723	18.8	3.1	13.2	2.5			
Hockley	78,717	10,057	24.1	1.8	16.3	6.0			
Hood	18,742	2,967	27.5	5.1	17.0	5.3			
Hopkins	205,946 49,581	22,375 14,506	21.9 31.6	1.5 6.7	18.9 17.8	1.5 7.2			
Howard	13,864	5,182	22.9	5.8	11.6	5.5			
HudspethHunt	34,478 69,337	17,227 8,428	12.6 35.1	1.8 6.4	8.0 22.3	2.8 6.4			
Hutchinson	55,876	22,241	9.2	2.5	4.6	2.2			
Irion	7,463 22,500	893 2,509	13.5 25.5	1.9 3.1	8.9 17.7	2.7 4.7			
Jackson	101,836	13,646	22.0	1.1	19.7	1.3			
Jasper	10,069	5,489	39.1	2.3	32.1	4.7			
Jeff Davis	(D)	(D)	(D)	(D)	(D)	(D)			
Jefferson	38,030 11,131	6,194 4,097	29.8 18.1	6.0 3.5	20.1 13.5	3.6 1.0			
Jim Wells	82,856	13,756	23.6	8.1	11.7	3.9			
Johnson	78,850 43,283	19,638 3,252	30.7 16.4	5.7 1.7	19.9 12.1	5.1 2.7			
Karnes	27,599	3,271	26.5	3.8	19.2	3.5			
Kaufman Kendall	58,981 12,530	7,408 1,714	29.9 39.3	3.0 6.1	23.8 27.1	3.2 6.1			
Kenedy	23,687	188	0.5	0.1	0.3	0.1			
Kent	23,067 (D)	(D)	(D)	(D)	(D)	(D) 4.7			
Kerr	10,803 (D)	1,486 (D)	27.6 (D)	7.1 (D)	15.8 (D)	4.7 (D)			
KimbleKing	6,588	479	(D) 4.9	1.6	1.5	1.8			
KinneyKleberg	4,710 61,817	1,192 46,428	19.4 5.0	6.7 0.6	9.9 4.0	2.8 0.4			
Knox	59,013	16,130	21.0	2.5	11.7	6.8			
Lamar Lamb	84,885 575,286	14,135 198,699	22.3 7.9	1.5 0.3	19.1 7.0	1.7 0.6			
		·							
LampasasLa Salle	16,137 18,683	1,287 1,287	16.6 40.1	3.6 8.9	9.6 28.4	3.5 2.8			
Lavaca	61,904	11,547	20.1	4.8	11.9	3.4			
Lee Leon	38,561 148,739	7,630 26,235	18.8 34.5	5.0 3.1	10.4 29.7	3.4 1.7			
Liberty	34,939	6,344	28.7	7.8	15.1	5.8			
Limestone	48,284 52,682	8,186 7,734	23.3 6.9	3.5 0.9	16.5 4.2	3.4 1.8			
Live Oak	17,913	1,851	26.3	5.4	16.4	4.5			
Llano	13,764	1,345	23.9	7.9	11.6	4.5			
Loving	912	52	4.5	0.9	3.1	0.5			
LubbockLynn	174,800 67,595	55,582 3,861	14.0 12.7	1.4 1.2	9.4 6.2	3.2 5.3			
McCulloch	22,565	2,585	25.4	6.6	12.7	6.1			
McLennanMcMullen	183,082 8,336	12,084 1,145	17.3 22.8	4.6 4.5	10.3 11.5	2.4 6.8			
Madison	82,860 3,350	5,305 2,326	13.1	1.3 3.6	10.9	0.9 2.8			
Marion	20,265	5,039	17.7 21.0	0.8	11.2 15.9	4.3			
Mason	51,449	17,377	40.0	7.7	24.9	7.4			
Matagorda	129,703	21,475	25.2	8.5	13.4	3.4			
Maverick	32,608 115,519	21,894 47,625	8.6 19.5	2.6 1.7	3.5 16.0	2.4 1.8			
Menard	9,635	1,320	19.4	5.9	9.6	3.9			
Midland	17,213 144,728	4,660 25,674	9.5 24.6	1.8 2.1	5.3 21.4	2.4 1.1			
Mills	43,032	8,946	24.4	5.1	15.3	4.0			
Mitchell	21,187 44,931	2,201 9,023	12.4 33.2	0.7 3.0	10.5 27.1	1.2 3.1			
Montague Montgomery	23,836	7,611	47.2	4.2	36.8	6.2			
Moore	605,026	344,071	3.9	1.1	2.1	0.7			
Morris	46,936	12,231	34.7	4.0	28.8	1.9			
Motley	12,800 322,374	1,630 47,834	10.9 23.5	2.0 1.7	5.7 20.7	3.3			
NacogdochesNavarro	66,378	6,323	24.0	4.9	15.3	1.1 3.8			
Newton	2,948 23,827	215 11,252	40.3 5.2	6.8 0.5	27.6 3.8	5.9 1.0			
Nolan Nueces	23,827 84,868	44,502	5.2 8.9	0.5 0.2	3.8 7.7	1.0			
	- ,- ,- ,-	,			L	continued			

Table C. Summary of Coverage, Nonresponse, and Misclassification Adjustments by County: 2012 (continued) [For meaning of abbreviations and symbols, see introductory text.]

[For meaning of abbreviations and symbols, see introductory text.] Geographic area	Total (number)	Standard error	Adjustment as percent of total	Percent of total adjustment from coverage	Percent of total adjustment from nonresponse	Percent of total adjustment from misclassification
SALES - Con.			2. 2300			
Counties - Con.						
Ochiltree	424,605	212,839	2.8	1.9	0.6	0.2
Oldham	112,956	46,595	2.8	0.3	1.9	0.6
Orange	4,335	1,070	26.0	3.6	17.9	4.5
Palo Pinto	53,787 93,297	24,791 42,935	31.0 37.4	2.0 1.0	24.5 33.2	4.5 3.1
Panola Parker	74,288	11,377	32.9	3.3	25.1	4.5
Parmer	1,329,538	265,926	1.6	0.4	1.0	0.2
Pecos	47,470	3,770	8.4	3.0	3.9	1.4
Polk	7,836	1,225	32.2	6.9	20.7	4.7
Potter	20,972	7,530	6.5	2.7	3.1	0.7
Presidio	(D)	(D)	(D)	(D)	(D)	(D)
Rains	15,250	1,625	30.3	3.6	19.8	6.9
RandallReagan	540,315 11,105	483,132 1,176	2.1 21.3	0.3 3.1	1.6 14.9	0.1 3.4
Real	1,649	197	25.5	9.0	12.9	3.6
Red River	53,529	7,479	33.4	2.5	28.3	2.6
Reeves	54,206	13,459	<u>51.1</u>	1.2	46.9	3.0
Refugio	43,046	5,821	17.9	2.9	10.0	5.1 0.9
Roberts	16,400 136,444	3,648 24,128	13.2 19.9	0.6 2.9	11.8 15.1	1.9
	,	,				
Rockwall	4,113	2,429	18.3	6.6	8.0	3.7
Runnels	47,427 75,303	3,158 37,071	18.1 36.2	3.6 1.3	10.2 33.6	4.3 1.3
Sabine	14,728	7,074	28.2	1.9	25.7	0.6
San Augustine	63,215	16,600	26.1	7.2	16.2	2.7
San Jacinto	8,529	2,206	28.7	5.1	19.1	4.5
San Patricio	86,215	20,079	13.7 21.0	2.6	7.2 9.1	3.9 5.8
San Saba	30,021 13,610	3,256 924	12.6	6.2 3.4	6.9	2.4
Scurry	29,027	1,281	11.3	2.2	5.6	3.5
•						
Shackelford	22,334	8,056	22.0	6.7	11.2	4.1
ShelbySherman	473,287 590,356	49,618 85,800	28.9 2.3	2.2 0.5	25.4 1.4	1.3 0.4
Smith	76,790	14.465	29.9	8.3	13.0	8.6
Somervell	4,303	688	30.5	5.0	20.2	5.3
Starr	108,546	21,370	27.9	2.6	20.9	4.5
Stephens	9,217	1,266	19.5 (D)	4.5 (D)	11.6 (D)	3.4 (D)
Sterling Stonewall	(D) 47,446	(D) 2,798	(D) 4.1	2.3	1.3	(D) 0.5
Sutton	10,872	728	15.7	6.1	8.5	1.1
0.11	500.040	400.055		0.7		
Swisher	586,810 34,603	466,855 5,105	2.3 28.4	0.7 4.8	1.4 20.0	0.2 3.6
Tarrant Taylor	37,625	24,280	16.1	2.4	11.1	2.6
Terrell	3,069	172	3.6	1.2	2.3	0.2
Terry	125,803	25,768	21.9	2.3	13.7	5.9
Throckmorton	24,837	2,443	13.5	3.0	7.0	3.5
Titus Tom Green	81,222 131,436	29,749 3,663	27.0 4.6	2.5 0.8	23.3 3.0	1.2 0.9
Travis	41,668	27,959	30.6	1.2	25.8	3.7
Trinity	7,050	649	31.2	6.0	19.4	5.9
Tides	10 111	10 110	10.0	2.0	7.0	4.7
TylerUpshur	19,144 60,558	12,446 19,968	12.3 29.4	2.8 1.6	7.9 26.9	1.7 1.0
Upton	12,684	1,899	24.1	6.0	11.1	7.0
Uvalde	112,475	21,687	8.9	1.8	6.5	0.7
Val Verde	10,650	775	7.2	2.9	3.7	0.7
Van Zandt	94,330 47,554	18,046 7,106	26.2	4.8 2.3	17.0	4.5 2.0
Victoria Walker	34,513	12,293	17.7 25.4	2.3 7.7	13.4 14.0	3.7
Waller	91,677	38,761	16.9	1.5	13.6	1.9
Ward	1,772	102	8.5	2.1	5.3	1.1
Washington	45,727	7,233	26.9	3.1	20.8	3.0
Webb	30,259	7,233 2,489	26.9 15.8	3.1	20.8	0.9
Wharton	373,637	55,463	22.0	2.7	17.3	2.0
Wheeler	111,206	69,069	2.8	1.0	1.1	0.8
Wichita	37,932	2,945	22.1	2.1	15.3	4.7
WilbargerWillacy	47,244 82,566	4,281 10,107	17.0 22.8	2.7 4.6	10.2 12.5	4.1 5.7
Williamson	129,648	24,980	24.4	1.8	20.7	1.9
Wilson	102,098	71,725	15.6	0.9	13.8	0.9
Winkler	3,436	(H)	1.9	(Z)	1.7	0.2
Wise	49,867	5,189	31.7	6.6	19.5	5.6
Wood	105,876	16,550	21.4	3.7	15.2	2.5
Yoakum	80,008	8,674	22.1	1.8	15.1	5.2
Young	23,692	2,514	21.6	2.6	16.8	2.2
Zapata	11,781 72,714	6,814 17,032	31.8 15.9	16.4 5.0	13.2 7.2	2.2 3.7
Zavala						

Table D. American Indian or Alaska Native Operators: 2012

Geographic area	American Indian or Alaska Native farm operators				American Indian or Alaska Native farm operators		
	Total	Individually reported	Other ²	Geographic area	Total	Individually reported	Other ²
State Total		-,		Counties - Con.		-1	
Texas	5,626	5,626	_	Grimes	24	24	
	0,020	0,020		Guadalupe	35	35	
Counties				Hale Hall	7 5	7 5	
Anderson		37	-	Hamilton	32	32	
AndrewsAngelina		5 19	-	HansfordHardeman	2 7	2 7	
Aransas		5 8	-	Hardin	10 37	10 37	
ArcherArmstrong		2	-	Harris Harrison	31	31	
Atascosa	71	71 20	-	Hortloy	2	2	
AustinBandera	25	25	-	Hartley Hays	14	14	
Bastrop	44	44	-	Henderson	38 25	38 25	
Baylor	5	5	-	Hidalgo Hill	32	32	
Bell		18 85	-	Hockley Hood	13	13 33	
Bexar		64	-	Hopkins	33 78	78	
BlancoBosque		4 22	-	Houston	20 17	20 17	
Bowie	99	99	-			17	
Brazoria		74 35	-	Hudspeth Hunt	3 125	3 125	
Brazos		10	-	Hutchinson	6	6	
Briscop	7	7		Irion	3	3	
Briscoe	45	7 45	-	Jack Jackson	23	23 8	
Burleson	20	20	-	Jasper	10	10	
Burnet		39 24	-	JeffersonJim Hogg	16 8	16 8	
Calhoun	3	3	-	Jim Wells	25	25	
Callahan		9 21	-	Johnson	73	73	
Camp	17	17	-	Jones	26	26	
Carson	4	4	-	Karnes Kaufman	21 93	21 93	
Cass		24	-	Kendall	21	21	
CastroChambers		6 8	-	Kenedy Kent	3	3	
Cherokee	36	36	-	Kerr	35	35	
Childress Clay		7 20	-	Kimble Kinney	6	6	
Cochran	9	9	-	·	'	'	
Coleman		10 20	_	Kleberg Knox	12	12	
Collin		78	-	Lamar	60	60	
Collingsworth	7	7		Lamb	19 24	19 24	
Collingsworth	9	9	-	LampasasLa Salle	13	13	
Comal	19	19 25	-	Lavaca	15 14	15 14	
Concho		1	-	Lee Leon	62	62	
Cooke	48	48	-	Liberty	17	17	
Crane	24	24	-	Limestone	54	54	
Crockett	3	3	-	Lipscomb	1	1	
Crosby	12	12	-	Live Oak Llano	14	8 14	
Culberson		2	-	Lubbock	35	35	
Dallam		7 36	-	Lynn McCulloch	5 26	5 26	
Dawson	8	8	-	McLennan	79	79	
Deaf Smith	15 15	15 15	-	McMullen Madison	5 27	5 27	
Denton	63	63	-				
DeWitt	12	12	-	Marion Martin	14	14 6	
Dimmit		24	-	Mason	3	3	
Donley	3	3	_	Matagorda Maverick	16	16	
Duval	22	22	-	Medina	31	31	
Eastland		18 13	-	Menard Midland	11 8	11 8	
Edwards	12	12	-	Milam	32	32	
Ellis	65	65 27	-	Mills	15	15	
El Paso Erath	78	78	-	Mitchell	13	13	
Falls		29 80	-	Montague	36 50	36 50	
Fannin	80	60	-	Montgomery Moore	18	18	
Fayette	35 14	35 14	-	Morris	8	8	
FisherFloyd	28	28	-	Motley Nacogdoches	21	21	
Foard	7	7	-	Navarro	167	167	
Fort Bend Franklin	6	17 6	-	Newton Nolan	6 6	6 6	
Freestone	18	18	-				
Frio		10 18	-	Nueces Ochiltree	11 9	11 9	
Galveston		11	-	Oldham	4	4	
Garza	8	8	-	Orange Palo Pinto	42 38	42 38	
Gillespie	19	19	-	Panola	14	14	
Goliad		23 25	-	Parker	139 8	139 8	
Gray	12	12	-	Polk	16	16	
Grayson		109 6	-	Potter Presidio	4 5	4 5	
Gregg	υ	Ü		1 100IUIU	ິນ	ວ	

See footnote(s) at end of table.

Table D. American Indian or Alaska Native Operators: 2012 (continued)

Geographic area	American Indian or Alaska Native farm operators				American India	nerican Indian or Alaska Native farm operators		
	Total	Individually reported	Other ²	Geographic area	Total	Individually reported ¹	Other ²	
Counties - Con.				Counties - Con.				
Rains	27	27	-	Taylor	25	25		
Randall	24	24	-	Terry	10	10		
Real	8	8	-	Throckmorton	5	5		
Red River	61	61	-	Titus	30	30		
Reeves	9	9	-	Tom Green	14	14		
Refugio	12	12	-	Travis	28	28		
Roberts	3	3	-	Trinity	11	11		
lobertson	42	42	-	Tyler	24	24		
lockwall	8	8	-	Úpshur	28	28		
unnels	16	16	-	Uvalde	11	11		
usk	32	32	-	Val Verde	7	7		
abine	6	6	-	Van Zandt	94	94		
an Augustine	3	3	-	Victoria	20	20		
an Jacinto	23	23	-	Walker	36	36		
an Patricio	8	8	-	Waller	39	39		
an Saba	29	29	-	Washington	34	34		
curry	16	16	-	Webb	5	5		
hackelford	5	5	-	Wharton	19	19		
helby	14	14	-	Wheeler	8	8		
herman	14	14	-	Wichita	15	15		
mith	96	96	_	Wilbarger	3	3		
omervell	8	8	-	Williamson	47	47		
tarr	16	16	-	Wilson	60	60		
tephens	10	10	-	Wise	72	72		
tonewall	4	4	-	Wood	45	45		
utton	3	3	-	Yoakum	4	4		
wisher	17	17	_	Young	23	23		
arrant	56	56	_	Zavala	10	10		

¹ Data were collected for a maximum of three operators per farm.
² Data represent American Indian or Alaska Native farm or ranch operators on reservations who did not report individually. Data obtained by reservation officials.